Antarctica meltdown could double sea level rise
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Digital Influence
Unleash the Power of Influencer Marketing to Accelerate Your Global Business
J. Backaler

- Offers practical guidance on how to incorporate influencers into international marketing strategy, from identifying them to potential risks
- Contains interviews with top influencers and marketing executives from across the globe
- Features in-depth case studies of successful and less successful influencer campaigns

This book brings order to the chaotic and rapidly evolving world of influencer marketing by providing readers with much needed context, frameworks, and best practices. Written for busy marketing professionals working in both domestic and international markets, it addresses these topics in a highly actionable and engaging manner. […]

Contents
1 Introduction.- 2 Then vs. Now: Influencer Marketing (Re-Defined).- 3 Levels of Influence: Key Characteristics of Modern-Day Influencers.- 4 A Global Phenomenon: The Rise of Influencers Around […]

Fields of Interest
Online Marketing/Social Media; Branding; Big Data/Analytics; Popular Science in Business and Management; Emerging Markets/Globalization

September 2018
XVI, 214 p. 41 illus. in color. Hardcover. 155 x 235 mm
£ 22.99 | € 24.99 | $ 29.99
ISBN 978-3-319-78395-6

All Languages Rights

Überleben und Wachsen in der Sofortgesellschaft
Wie Sie Ihrem Unternehmen durch Big Data und Value Chain Wettbewerbsvorteile verschaffen
D. Bölzing

- Digitaler Wandel als Treiber in der Sofortgesellschaft
- Neuer Ansatz zur Optimierung der Value Chain
- Mit zahlreichen aktuellen Beispielen Dieses Buch richtet sich vor allem an Unternehmen, die Nachholbedarf in ihrer Digitalisierungsstrategie oder einen hohen Aufwand der ungewollten Improvisation und des „Firefighting“ haben. Leitthema ist die Dynamik der Sofortgesellschaft, die durch die digitale Transformation entstanden ist. […]

Contents

Fields of Interest
Supply Chain Management; Logistics; Business Strategy/Leadership

August 2018
XVII, 302 S. 81 Abb. Softcover. 168 x 240 mm
£ 29.99 | € 35.51 | $ 44.99

All Languages Rights

Künstliche Intelligenz
Mit Algorithmen zum wirtschaftlichen Erfolg
P. Buxmann, H. Schmidt (Eds)

- Grundlagen und ökonomische Effekte der künstlichen Intelligenz
- Anwendungsbeispiele namhafter Unternehmen
- Besseres Verständnis der neuen Technologien und Möglichkeiten

Dieses Buch soll dabei helfen, die neuen Technologien und Anwendungspotenziale der künstlichen Intelligenz besser zu verstehen und einzuordnen. Neben einer ausführlichen und verständlichen Vermittlung grundlegender Kenntnisse und ökonomischer Effekte der künstlichen Intelligenz enthält es viele Anwendungsbeispiele bekannter Unternehmen. […]

Contents

Fields of Interest
Innovation/Technology Management; Business IT Infrastructure

September 2018
XII, 226 S. 49 Abb. Book + eBook. Softcover. 168 x 240 mm
£ 27.99 | € 31.99 | $ 39.99
ISBN 978-3-662-57567-3

All Languages Rights
Navigating Innovation
How to Identify, Prioritize and Capture Opportunities for Strategic Success
B. Gailly

- Develop capabilities to identify, select and implement new opportunities in line with your objectives
- Reveals the common misconceptions of what innovation is, beyond new product development
- Learn how to convince multiple stakeholders to buy in to your strategy

Every firm must maintain an entrepreneurial ecosystem and a coherent innovation strategy in order to stay ahead of the competition. For managers this means being able to build a vision of what innovation looks like in the context of their organization, fostering entrepreneurial behaviour, spotting opportunities and making the right decisions. [...]
A new book explores the transformation of business in China, focusing on qualitative research combined with contemporary data rather than statistical analysis, enabling readers to apply the findings to other digital business scenarios.

One of the first of its kind, this book examines the digitalization of Chinese businesses both theoretically and practically. Taking a fresh and unique approach, the authors seek to adopt individual theories for each empirical case explored and investigate the dramatic digital transformation that Chinese firms have undergone in recent years.

**Fields of Interest**
Asian Business; Consumer Behavior; Innovation/Technology Management; Asian Business; Industries

**Series Title**
Palgrave Macmillan Asian Business Series

---

**Gender on Wall Street**
Uncovering Opportunities for Women in Financial Services
L. Mattia

- Helps women identify the internal and external obstacles preventing them from realizing their vision
- Provides insights and exercises to develop a strategy for career success
- Showcases confidence building and collaboration techniques to better create work environments that support their values and goals

This book contains advice and direction for women who are either seeking a career or who have already embarked on a career in financial services. The book first aims to help the female reader gain clarity on her motivation in pursuing a career in finance. 

**Contents**

**Fields of Interest**
Popular Science in Finance; Financial Services; Gender Studies

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**Marketing**
Grundlagen marktorientierter Unternehmensführung Konzepte - Instrumente - Praxisbeispiele
H. Meffert, C. Burmann, M. Kirchgeorg, M. Eisenbeiß

- Lehrbuchklassiker zu den Grundlagen marktorientierter Unternehmensführung
- Die Synthese bewährten und modernen Marketingwissens

**Contents**
Konzeptionelle Grundlagen des Marketing.- Käuferverhaltens- und Marketingforschung.- Marketingziele.- Marketingstrategien.- Marketing-Mix.- Marketingorganisation und -implementierung.- [...] 

**Fields of Interest**
Marketing

---

**The Digitization of Business in China**
Exploring the Transformation from Manufacturing to a Digital Service Hub
Y. Kim, P. Chen (Eds)

- Investigates the main social background that has allowed for such radical changes in B2B businesses.
- Focuses on qualitative research combined with contemporary data rather than statistical analysis, enabling readers to apply the findings to other digital business scenarios
- Suggests future directions of research in this emerging area

One of the first of its kind, this book examines the digitalization of Chinese businesses both theoretically and practically. Taking a fresh and unique approach, the authors seek to adopt individual theories for each empirical case explored and investigate the dramatic digital transformation that Chinese firms have undergone in recent years. […] 

**Fields of Interest**
Asian Business; Consumer Behavior; Innovation/Technology Management; Asian Business; Industries

**Series Title**
Palgrave Macmillan Asian Business Series

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**July 2018**
XV, 276 p. 17 illus. Hardcover. 148 x 210 mm
£ 99.99 | € 109.99 | $ 139.99
ISBN 978-3-319-79047-3

**May 2018**
IX, 193 p. 5 illus. Hardcover. 155 x 235 mm
£ 24.99 | € 29.99 | $ 34.99
ISBN 978-3-319-75549-6

**August 2018**
XVIII, 981 S. 296 Abb. in Farbe. Mit Online-Extras. Hardcover. 168 x 240 mm
£ 37.99 | € 42.05 | $ 49.99
ISBN 978-3-658-21195-0

All Languages Rights
Technology Run Amok
Crisis Management in the Digital Age
I. I. Mitroff

- Offers insight into how we are developing and deploying technology today
- Proposes a shift from away from the technological mindset towards what the author terms a humanistic mindset, which will offer a better solution to the crises caused by today’s unfettered technological advances
- Explores new and emerging areas, such as the impact of self-driving cars, social media, and disruptive technologies

The recent data controversy with Facebook highlights that the tech industry as a whole was utterly unprepared for the backlash it faced as a result of its business model of selling user data to third parties. Despite the predominant role that technology plays in all of our lives, the controversy also revealed that many tech companies are reactive, rather than proactive, in addressing crises. [...]
Fundraising
Professionelle Mittelbeschaffung für gemeinwohlorientierte Organisationen
M. Urselmann

- Neu in der 7. Auflage: alle aktuellen Trends und Entwicklungen im Online-Fundraising
- Eingeführtes Handbuch von Autor mit jahrelanger Praxiserfahrung
- Wissenschaftlich fundiert, aber in einer speziell für den Einsteiger einfachen Sprache formuliert

Dieses Buch stellt Ihnen das aktuell verfügbare Wissen über professionelles Fundraising und sein systematisches Management zur Verfügung. [...]

Contents
Definition des Begriffs "Fundraising".- Fundraising bei Privatpersonen.- Relationship Fundraising.- Entscheidungen im Rahmen des Marketing-Mix.- Online-Fundraising.- Fundraising bei Unternehmen.- [...] 

Fields of Interest
Non-Profit Organizations and Public Enterprises; Marketing; Management

Agile Strategy Management in the Digital Age
How Dynamic Balanced Scorecards Transform Decision Making, Speed and Effectiveness
D. Wiraeus, J. Creelman

- Evolves the extremely popular Balanced Scorecard strategy execution system for the digital age
- Draws on the authors' extensive professional experience and expertise to provide a step-by-step guide to strategy management
- Outlines how Balanced Scorecards can become a powerful learning and analytics tool, integrating Big Data

In a world of rapid and unpredictable change, the problem with strategic planning is that if you follow your plan through to the end, you will get exactly what you used to want. What you need is a framework for planning and implementing a strategy that is agile enough to adapt to a dynamic environment but focused enough to deliver. That framework is the Dynamic Balanced Scorecard. [...]

Contents
1 Digital Era Strategy Management: From planning to dynamic decision making.- 2 From Industrial to Digital-Era-based Strategies.- 3 Agile Strategy Setting.- 4 Strategy Mapping in Disruptive Times.- [...] 

Fields of Interest
Business Strategy/Leadership; Innovation/Technology Management; Big Data/Analytics

September 2018
XXI, 613 S. 235 Abb. Hardcover. 168 x 240 mm
£ 44,99 | € 51,39 | $ 64.99
ISBN 978-3-658-20330-6
All Languages Rights

August 2018
XXI, 276 p. 53 illus. Hardcover. 155 x 235 mm
ISBN 978-3-319-76308-8
All Languages Rights
The Economics of Public Health
Evaluating Public Health Interventions
H. Brown

- Illustrates how economic tools can improve policy evaluation and public health policy
- Provides a step-by-step guide on how to conduct a discrete choice experiment
- Highlights the shortcomings of existing outcome measures used in health economics

Non-communicable diseases have surpassed infectious diseases as the leading cause of morbidity and mortality in developed countries. Prevention and treatment of the causes and consequences of lifestyle-related diseases forms an important part of health policy in the twenty-first century. [...] 

Contents
Section 1: Introduction.- Chapter 1: Introduction to Public Health Economics.- Section 2: Data.- Chapter 2: Observational Data.- Chapter 3: Missing Data and Sample Attrition.- Section 3: Policy [...] 

Fields of Interest
Health Economics; Public Economics; Microeconomics; Health Care Management; Behavioral/Experimental Economics

The World of Open Data
Concepts, Methods, Tools and Experiences
Y. Charalabidis, A. Zuiderwijk, C. Alexopoulos, M. Janssen, T. Lampoltshammer, E. Ferro

- Presents current, state of the art methods, tools and research in the design and operation of open data infrastructures and portals
- Provides best practices and standardization for achieving robustness, expressive power, interoperability, scalability and new user experiences in open data solutions
- Serves as a strong supporting text for postgraduate and graduate studies in data analytics, big data, open data, open government, eParticipation and eDemocracy

This book discusses the latest developments in the field of open data. The opening of data by public organizations has the potential to improve the public sector, inspire business innovation, and establish transparency. With this potential comes unique challenges; these developments impact the operation of governments as well as their relationship with private sector enterprises and society. [...] 

Fields of Interest
Public Administration; Public Policy; Big Data/Analytics

Economic Growth and Development
A Dynamic Dual Economy Approach
S. Das, A. Mourmouras, P. Rangazas

- Revised and updated to include additional exercises, technical mathematical appendix, and solutions to all questions Develops dynamic two-sector models to explain sector differences in productivity, wages, hours worked, fertility, and saving rates, and how structural transformation impacts economic growth
- Augments the Solow model to include endogenous theories of saving, fertility, human capital, institutional arrangements, and policy formation
- Provides end-of-chapter questions to solidify main points for less advanced students and model-based problems for more advanced students

This text is an introduction to the newer features of growth theory that are particularly useful in examining the issues of economic development. Growth theory provides a rich and versatile analytical framework through which fundamental questions about economic development can be examined. [...] 

Fields of Interest
Economic Growth; Development Economics; Macroeconomics/Monetary Economics//Financial Economics
Die Zukunft des Bargelds
Perspektiven aus Wissenschaft und Praxis
J. Lempp, T. Pitz, J. Sickmann (Eds)

- Aktuelle Trends zum Stellenwert von Banknoten und Münzen
- Mit Ergebnissen aktueller Studien
- Mit spannenden Einblicken zum Thema Kryptowährungen

Dieses Buch analysiert die aktuellen Trends, die derzeit in Wissenschaft und Praxis über den Stellenwert von Banknoten und Münzen in Deutschland geführt werden. Dazu bieten die Autoren zunächst eine Bestandsaufnahme zu den Einstellungen der Bevölkerung zum Bargeld, bevor sie dann detailliert auf Charakteristika einzelner Zahlungstransaktionen eingehen. [...]

Contents
Empirische Untersuchung zu Einstellungen zum Bargeld in Deutschland.- Kleinstmünzen.- Gebühren für Bargeldtransaktionen.- Psychologisches Preisen.- Regionalwährungen.- ePayment.- Bitcoins.- [...]

Fields of Interest
Macroeconomics/Monetary Economics//Financial Economics

A Brain-Focused Foundation for Economic Science
A Proposed Reconciliation between Neoclassical and Behavioral Economics
R. B. McKenzie

- Presents an innovative way of considering how best to understand economics: the brain-focused approach to scarcity
- Unifies behavioral inductive findings with neoclassical deductive methods
- Provides a nuanced critique of the shortcomings of both neoclassical and behavioral economics, while allowing the benefits of both

This book argues that Lionel Robbins’s construction of the economics field’s organizing cornerstone, scarcity—and all that has been derived from it from economists in Robbins’s time to today—no longer can generate general consent among economists. [...]

Contents

Fields of Interest
Heterodox Economics; History of Economic Thought/Methodology; Behavioral/Experimental Economics; Economic Theory/Quantitative Economics/Methodological Methods

Magical Capitalism
Enchantment, Spells, and Occult Practices in Contemporary Economies
B. Moeran, T. de Waal Malefyt (Eds)

- Explores the creation and use of magical practices, chants and rituals in different spheres of the political economy
- Examines how the economy, politics, law, markets, business and cultural production are performed magically through media
- Applies well-founded anthropological topics like animism, shamanism and technologies of enchantment to assess social phenomena such as central banking, contract law and marketing

This volume of essays examines the ways in which magical practices are found in different aspects of contemporary capitalist societies. [...]

Contents

Fields of Interest
Cultural Economics; Anthropology; Marketing; Law and Economics; Political Economy/Economic Policy; Heterodox Economics
Digitized Labor
The Impact of the Internet on Employment
L. Pupillo, E. Noam, L. Waverman (Eds)

- Includes contributions from academics, professionals, and policy-thinkers alike, including such figures as Jeffrey D. Sachs
- Offers insights from theoretical and empirical studies with a focus on Europe, the USA, Canada, and Asia in one cohesive text
- Discusses the internet’s role in shaping labor, its effect on income distribution, and its implications for economic policy

As with previous technological revolutions, innovations in the online world have triggered transformations in the labor market and the economy. While the Internet is trumpeted as a great job creator, there are also downsides that need to be identified and dealt with. The book discusses the following topics: Is the Internet a net creator of jobs? […]

Contents

Fields of Interest
Popular Science in Economics; Labor Economics; R and D/Technology Policy; Digital/New Media; Media Policy

May 2018
XXIX, 270 p. 29 illus. Softcover.
155 x 235 mm
£ 16.50 | € 29.99 | $ 29.99
ISBN 978-3-319-77046-8

All Languages Rights
Investition und Finanzierung
Grundlagen der betrieblichen Finanzwirtschaft
H. P. Becker, A. Peppmeier

- Grundlagen und Methoden der Investitionsrechnung und Finanzierung
- Erweitert um ein Kapitel zum Capital Asset Pricing Model
- Mit zahlreichen Berechnungsbeispielen, Aufgaben und Lösungen

Das Lehrbuch definiert die Ziele der Investitions- und Finanzpolitik in Unternehmen und erklärt einfach und verständlich die Grundlagen und Methoden der Investitionsrechnung, Finanzierung und Finanzderivate. Systematisch werden klassische und neue Instrumente vorgestellt, analysiert und bewertet. Beispiele und Aufgaben mit Lösungsvorschlägen ergänzen die Ausführungen. [...]}

Contents
Finanzwirtschaft des Unternehmens.- Investition.- Finanzierung.- Derivate.- Aufgaben und Lösungen.

Fields of Interest
Finance, general

FinTech Revolution
Universal Inclusion in the New Financial Ecosystem
S. Blakstad, R. Allen

- Addresses the economic and technological changes that are enabling consumers to divorce or leapfrog traditional financial services and examines the main drivers of change since the 2008 financial crisis
- Explores current developments which will form the springboard for future finance, with a focus on new technologies and emerging markets
- Draws on the authors’ experience and research building future state financial technology to paint a holistic picture of the near and mid-term future opportunities presented by the financial technology and inclusion revolution

This book is a practical guide to the evolving landscape of finance, highlighting how it’s changing our relationship with money and how financial technology, together with macroeconomic and societal change, is rewriting the story of how business is done in developing economies. [...]}

Fields of Interest
Banking; Innovation/Technology Management

The Case Against 2 Per Cent Inflation
From Negative Interest Rates to a 21st Century Gold Standard
B. Brown

- Analyses 2% inflation targeting
- Presents new theoretical perspectives
- Draws on monetary theory, behavioural finance, and finance theory

This book analyses the controversial and critical issue of 2% inflation targeting, currently practised by central banks in the US, Japan and Europe. Where did the 2% target inflation originate, and for what reason? Do these reasons stand up to scrutiny? [...]}

Contents

Fields of Interest
Popular Science in Finance; Macroeconomics/Monetary Economics// Financial Economics

July 2018
XV, 371 S. 100 Abb. Softcover. 168 x 240 mm
£ 24,99 | € 28,03 | $ 34.99
ISBN 978-3-658-18274-8

All Languages Rights

August 2018
X, 232 p. Hardcover. 148 x 210 mm
ISBN 978-3-319-89356-3

All Languages Rights
Invest Outside the Box
Understanding Different Asset Classes and Strategies
T. Dennison

- Written by an experienced practitioner as a practical guide for investment practitioners
- Serves as a plain-English, non-technical introduction to different investment categories including stocks, bonds, real estate, private equity and alternatives across multiple countries
- Consistent and modular format for readers needing to cross over different types of investments

This book is a practical and concise guide to major asset classes, investment strategies, and foreign markets. For investors familiar with one “box” of investments, this book serves as a non-technical introduction to other “boxes” worth diversifying into, such as bonds, real estate, private equity, cryptocurrencies, and Chinese A-shares. […]

Contents

Fields of Interest
Investments and Securities

Deep Space Commodities
Exploration, Production and Trading
T. James (Ed)

- Features guidance on commercial strategies for off planet natural resource developments
- Includes contributions from leading scientists and space law developers
- Explores the regulatory framework as well as technology developments

Welcome to the new space economy... Space is open for business! The dawn of a new space race led by private sector entrepreneurs is upon us thanks to the USA Space Act 2015 and technology advances like SpaceX rockets, which have greatly reduced the cost of space flight. […]

Contents

Fields of Interest
Investments and Securities
An Introduction to Single-User Information Theory
F. Alajaji, P. Chen

- Fosters an in-depth understanding of the concepts covered
- Offers a concise discussion of the main pillars of Shannon's information theory
- Is ideal for a one-semester foundational course on information theory

This book presents a succinct and mathematically rigorous treatment of the main pillars of Shannon's information theory, discussing the fundamental concepts and indispensable results of Shannon's mathematical theory of communications. [...]

Contents
Introduction.- Information Measures for Discrete Systems.- Lossless Data Compression.- Data Transmission and Channel Capacity.- Differential Entropy and Gaussian Channels.- Lossy Data Compression [...]

Fields of Interest
Information and Communication, Circuits

Series Title
Springer Undergraduate Texts in Mathematics and Technology

May 2018
XVII, 323 p. 30 illus. Hardcover, 155 x 235 mm
£ 44.99 | € 52.99 | $ 59.99
ISBN 978-3-662-56740-1

All Languages Rights

Mathematik

- Dieses vierfarbige Lehrbuch von Arens/Hettlich/Karpfinger/Kockelkorn/Lichtenegger/Stachel bietet in einem Band ein lebendiges Bild der „gesamten“ Mathematik für Anwender
- Langjähriger verlässlicher Begleiter aller Anwender der Mathematik vom Beginn des Studiums über höhere Semester bis in die Berufspraxis hinein
- Durchgängig vierfarbiges Layout mit mehr als 1500 Abbildungen
Dieses vierfarbige Lehrbuch bietet in einem Band ein lebendiges Bild der „gesamten“ Mathematik für Anwender. Angehende Ingenieure und Naturwissenschaftler finden hier die wichtigen Konzepte und Begriffe ausführlich und mit vielen Beispielen erklärt. Im Mittelpunkt stehen das Verständnis der Zusammenhänge und die Beherrschung der Rechentechniken. [...]

Contents

Fields of Interest
Mathematics, general; Sequences, Series, Summability; Combinatorics; Game Theory, Economics, Social and Behav. Sciences; Algorithm Analysis and Problem Complexity

August 2018
XXIV, 1630 S. 836 Abb., 808 Abb. in Farbe. Hardcover, 210 x 279 mm
£ 54.99 | € 65.41 | $ 79.99
ISBN 978-3-662-56740-1

All Languages Rights

The Tower of Hanoi – Myths and Maths
A. M. Hinz, S. Klavžar, C. Petr

- Updated Edition of the first comprehensive monograph on the topic
- Contains new material and a thorough presentation of the historical development
- Numerous attractive figures and original photos
The solitaire game "The Tower of Hanoi" was invented in the 19th century by the French number theorist Édouard Lucas. The book presents its mathematical theory and offers a survey of the historical development from predecessors up to recent research. [...]

Contents

Fields of Interest
Mathematics, general; Sequences, Series, Summability; Combinatorics; Game Theory, Economics, Social and Behav. Sciences; Algorithm Analysis and Problem Complexity

May 2018
XVI, 452 p. 155 illus., 60 illus. in color. Hardcover, 155 x 235 mm
£ 96.50 | € 109.99 | $ 129.00
ISBN 978-3-319-73778-2

All Languages Rights
Denken in Strukturen und seine Geschichte
Von der Kraft des mathematischen Beweises
J. Honerkamp

- Bietet eine lebendig geschriebene Geschichte der Mathematik als Kulturleistung des Denkens in Strukturen
- Zeigt auf, wie formales Denken entscheidend die Entwicklung von Wissenschaft und Technik getrieben hat und durch Digitalisierung und Maschinenlernen weiter beschleunigt
- Erläutert auf verständliche Weise eine Reihe herausragender Erkenntnisse der Mathematik, z.B. Infinitesimalrechnung, Konstruktion der reellen Zahlen und Gödel'sche Unvollständigkeitstheoreme

Wie kommt es, dass das „Buch der Natur in der Sprache der Mathematik“ geschrieben ist? Was hat Mathematik mit Logik zu tun und was die Logik mit der Natur? Wie haben die Menschen sich im Laufe der Geistesgeschichte diesen Fragen genähert? [...] 

Fields of Interest
Popular Science in Mathematics; History of Mathematical Sciences; Popular Science in Philosophy; Popular Science in Physics; Mathematical Logic and Foundations

Continuous-Time Asset Pricing Theory
A Martingale-Based Approach
R. A. Jarrow

- Fills the gap in PhD–level books on asset pricing theory created in between those books aimed at economics & business students and those written in mathematical finance for math students
- Uses the simplest and most general approach to asset pricing theory: the martingale approach
- Zooms in on asset price bubbles in all results

Yielding new insights into important market phenomena like asset price bubbles and trading constraints, this is the first textbook to present asset pricing theory using the martingale approach (and all of its extensions). Since the 1970s asset pricing theory has been studied, refined, and extended, and many different approaches can be used to present this material. [...] 

Fields of Interest
Quantitative Finance; Probability Theory and Stochastic Processes; Optimization; Financial Mathematics

Series Title
Springer Finance

Introduction to Riemannian Manifolds
J. M. Lee

- Easy for instructors to adapt the topical coverage to suit their course Develops an intimate acquaintance with the geometric meaning of curvature
- Gives students strong skills via numerous exercises and problem sets
- Adapted from Riemannian Manifolds, the new edition has been aptly expanded to cover one or two semesters

This textbook is designed for a one or two semester graduate course on Riemannian geometry for students who are familiar with topological and differentiable manifolds. The second edition has been adapted, expanded, and aptly retitled from Lee’s earlier book, Riemannian Manifolds: An Introduction to Curvature. [...] 

Contents

Fields of Interest
Differential Geometry

Series Title
Graduate Texts in Mathematics
Linear Algebra
M. T. Nair, A. Singh

- Presents Gaussian elimination and the Gauss–Jordan elimination process
- Elaborates on the use of projection operators due to their importance in applications
- Discusses solvability of linear equations as an application of results on linear transformations rather than using elementary operations

This book introduces the fundamental concepts, techniques and results of linear algebra that form the basis of analysis, applied mathematics and algebra. Intended as a text for undergraduate students of mathematics, science and engineering with a knowledge of set theory, it discusses the concepts that are constantly used by scientists and engineers. [...] 

Contents

Fields of Interest
Linear Algebra; Linear and Multilinear Algebras, Matrix Theory; Mathematics Education

Understanding Markov Chains
Examples and Applications
N. Privault

- Easily accessible to both mathematics and non-mathematics majors who are taking an introductory course on Stochastic Processes
- Filled with numerous exercises to test students' understanding of key concepts
- A gentle introduction to help students ease into later chapters, also suitable for self-study

This book provides an undergraduate-level introduction to discrete and continuous-time Markov chains and their applications, with a particular focus on the first step analysis technique and its applications to average hitting times and ruin probabilities. [...] 

Contents
Probability Background.- Gambling Problems.- Random Walks.- Discrete-Time Markov Chains.- First Step Analysis.- Classification of States.- Long-Run Behavior of Markov Chains.- Branching [...]

Fields of Interest
Probability Theory and Stochastic Processes; Statistical Theory and Methods; Statistics for Engineering, Physics, Computer Science, Chemistry and Earth Sciences

Series Title
Springer Undergraduate Mathematics Series

Einführung in das mathematische Arbeiten
H. Schichl, R. Steinbauer

- Neuauflage DES Klassikers für die Einführung ins mathematische Arbeiten
- Jetzt mit vielen hilfreichen Videos
- Weiterhin mit vielen Beispielen und Übungsaufgaben

Die Art und Weise, wie Mathematik an höheren Schulen vermittelt wird, unterscheidet sich radikal von der Art und Weise, wie Mathematik an Universitäten gelehrt wird. Während in der Schulmathematik meist Schemata zur Lösung von Standardproblemen im Vordergrund stehen, beschäftigt sich Mathematik als Wissenschaft hauptsächlich mit abstrakten Strukturen. [...] 

Contents

Fields of Interest
Mathematics, general

August 2018

All Languages Rights

August 2018

All Languages Rights

July 2018

All Languages Rights
Algebraic Inequalities
H. Sedrakyan, N. Sedrakyan

- Includes new and classical methods to prove algebraic inequalities
- Most of inequalities are either created by the authors or have author-prepared-proofs
- Serves as a unique tool for readers to most effectively maximize learning potential

This unique collection of new and classical problems provides full coverage of algebraic inequalities. Many of the exercises are presented with detailed author-prepared-solutions, developing creativity and an arsenal of new approaches for solving mathematical problems. Algebraic Inequalities can be considered a continuation of the book Geometric Inequalities: Methods of Proving by the authors. […]

Contents
Basic Inequalities and their Applications. - Strum’s Method. - The HM-GM-QM Inequalities. - Cauchy-Bunyakovsky-Schwarz Inequality. - Change of Variable(s) Method. - Symmetry and Homogeneity. - The […]

Fields of Interest
Algebraic Geometry; Number Theory

Series Title
Problem Books in Mathematics

Applied Linear Algebra and Matrix Analysis
T. S. Shores

- Emphasizes linear algebra as an experimental science with a variety of modern applications
- Develops students’ analytical writing with report projects that require descriptive precision
- Explores applications of linear algebra to contemporary topics in technology, like Google PageRank

In its second edition, this textbook offers a fresh approach to matrix and linear algebra. Its blend of theory, computational exercises, and analytical writing projects is designed to highlight the interplay between these aspects of an application. […]

Contents

Fields of Interest
Linear and Multilinear Algebras, Matrix Theory

Series Title
Undergraduate Texts in Mathematics

Algebraic Combinatorics
Walks, Trees, Tableaux, and More
R. P. Stanley

- Includes a new chapter on combinatorial commutative algebra
- First text on algebraic combinatorics targeted towards undergraduates
- Written by the most well-known algebraic combinatorist world-wide

Written by one of the foremost experts in the field, Algebraic Combinatorics is a unique undergraduate textbook that will prepare the next generation of pure and applied mathematicians. […]

Contents

Fields of Interest
Combinatorics; Graph Theory

Series Title
Undergraduate Texts in Mathematics
Elements of Stochastic Calculus and Analysis
D. W. Stroock

- Often written in a more essay form, the text contains many unique insights into the topic
- Broadens understanding of the material for advanced grad students and research mathematicians
- Includes unique and challenging exercises in each chapter

This book gives a somewhat unconventional introduction to stochastic analysis. Although most of the material covered here has appeared in other places, this book attempts to explain the core ideas on which that material is based. […]

Contents

Fields of Interest
Probability Theory and Stochastic Processes

Series Title
CRM Short Courses

Konkrete Mathematik (nicht nur) für Informatiker
Mit vielen Grafiken und Algorithmen in Python
E. Weitz

- Zusatzmaterial: Unterstützung durch erfolgreichen YouTube-Kanal (Videos)
- Onlinematerial auf der Verlagsseite: Fast 300 Seiten mit Lösungen zu ausgewählten Aufgaben
- Begründungen im "Plauderton" statt abstrakter mathematischer Beweise

Das etwas andere Mathe-Lehrbuch: Mathematik, die Informatiker (und nicht nur) wirklich brauchen, und die direkt am Computer umgesetzt wird in Form von kleinen Algorithmen, numerischen "Experimenten" und interaktiven Visualisierungen. […]

Contents

Fields of Interest
Mathematical Applications in Computer Science; Mathematics of Computing

June 2018
XIV, 206 p. Hardcover.
155 x 235 mm
£ 49.99 | € 56.99 | $ 69.99
ISBN 978-3-319-77037-6

July 2018
XIII, 942 S. 586 Abb., 423 Abb. in Farbe.
Hardcover.
168 x 240 mm
£ 37,99 | € 42,05 | $ 49.99
ISBN 978-3-658-21564-4

All Languages Rights
Singular Spectrum Analysis with R
N. Golyandina, A. Korobeynikov, A. Zhigljavsky

- Presents an up-to-date overview of Singular Spectrum Analysis (SSA) methodology
- Demonstrates how SSA can be used for the analysis of time series and digital images
- Provides tutorials on the Rssa package

This comprehensive and richly illustrated volume provides up-to-date material on Singular Spectrum Analysis (SSA). SSA is a well-known methodology for the analysis and forecasting of time series. Since quite recently, SSA is also being used to analyze digital images and other objects that are not necessarily of planar or rectangular form and may contain gaps. [...]”

**Contents**
Preface.- Common symbols and acronyms.- Contents.- 1 Introduction: Overview.- 2 SSA analysis of one-dimensional time series.- 3 Parameter estimation, forecasting, gap filling.- 4 SSA for [...]”

**Fields of Interest**
Statistical Theory and Methods; Computer Imaging, Vision, Pattern Recognition and Graphics; Mathematical Software; Statistics for Business/Economics/ Mathematical Finance/Insurance; Statistics and Computing/Statistics Programs; Statistics for Life Sciences, Medicine, Health Sciences

---

Elements of Copula Modeling with R
M. Hofert, I. Kojadinovic, M. Mächler, J. Yan

- Offers an introduction to copulas and their main properties, along with the most important theoretical results
- Illustrates the concepts using stand-alone and reproducible R examples involving synthetic or real-world data
- Elaborates copula transformations, copula estimation, graphical diagnostics, statistical tests and model selection

This book introduces the main theoretical findings related to copulas and shows how statistical modeling of multivariate continuous distributions using copulas can be carried out in the R statistical environment with the package copula (among others). Copulas are multivariate distribution functions with standard uniform univariate margins. [...]”

**Fields of Interest**
Statistics for Business/Economics/ Mathematical Finance/Insurance; Statistics for Engineering, Physics, Computer Science, Chemistry and Earth Sciences; Statistics and Computing/Statistics Programs; Quantitative Finance; Mathematical and Computational Engineering; Mathematical Software

---

Excel 2016 in Applied Statistics for High School Students
T. J. Quirk

- Provides high school students key steps and examples to solve practical, easy-to-understand statistical problems using Excel 2016
- Suitable for high school, community college, and undergraduate students
- Guides students through not only statistical formulas but also the processes and reasoning that support statistical theory

This textbook is a step-by-step guide for high school, community college, or undergraduate students who are taking a course in applied statistics and wish to learn how to use Excel to solve statistical problems. All of the statistics problems in this book will come from the following fields of study: business, education, psychology, marketing, engineering and advertising. [...]”

**Fields of Interest**
Statistics for Social Science, Behavioral Science, Education, Public Policy, and Law; Assessment, Testing and Evaluation; Higher Education

**Series Title**
Excel for Statistics
The Uncertainty Analysis of Model Results
A Practical Guide
E. Hofer

- Provides a step-by-step practical guide to the uncertainty analysis of computer models
- Discusses the advantages and disadvantages of the suggested methods
- Points out the benefits of an uncertainty analysis for model robustness and the reliability of the results

This book is a practical guide to the uncertainty analysis of computer model applications. Used in many areas, such as engineering, ecology and economics, computer models are subject to various uncertainties at the level of model formulations, parameter values and input data. [...]

Fields of Interest
Statistical Theory and Methods; Simulation and Modeling; Mathematical Modeling and Industrial Mathematics; Economic Theory/Quantitative Economics/Mathematical Methods; Math. Appl. in Environmental Science; Quality Control, Reliability, Safety and Risk

Economic and Financial Modelling with EViews
A Guide for Students and Professionals
A. Aljandali, M. Tatahi

- EViews is widely used in top business schools and in industry
- Practical guide for both professionals and students
- Step-by-step tutorials throughout

This practical guide in Eviews is aimed at practitioners and students in business, economics, econometrics, and finance. It uses a step-by-step approach to equip readers with a toolkit that enables them to make the most of this widely used econometric analysis software. Statistical and econometrics concepts are explained visually with examples, problems, and solutions. [...]

Contents
Chapter 1: Introduction to eviews.- Chapter 2: A guideline for running regression.- Chapter 3: Time series analysis.- Chapter 4: Time series modelling.- Chapter 5: Further properties of time [...]

Fields of Interest
Statistics for Business/Economics/Mathematical Finance/Insurance; Quantitative Finance; Econometrics; Business Finance

Series Title
Statistics and Econometrics for Finance
Grundkurs JAVA
Von den Grundlagen bis zu Datenbank- und Netzanwendungen
D. Abts

- Kompakter Einstieg in das Programmieren mit Java
- Behandelt die wichtigsten Aspekte auf Basis von Java SE 9
- Mit mehr als 200 Übungen und vielen Beispielprogrammen

Contents
Imperative und objektorientierte Sprachkonzepte.- Ausnahmebehandlung.- Ausgewählte Standardklassen - Generische Typen.- Lambdas, Streams und Optional.- Ein- und Ausgabe.- Threads und Prozesse.- [...]

Fields of Interest
Programming Languages, Compilers, Interpreters; Programming Techniques; Software Engineering; Mathematical and Computational Engineering

Social Networks Science: Design, Implementation, Security, and Challenges
From Social Networks Analysis to Social Networks Intelligence
N. Dey, R. Babo, A. S. Ashour, V. Bhatnagar, M. S. Bouhtel (Eds)

- Explains the different protocols, models, and approaches used in the design of the social networks
- Offers flexible and sophisticated solutions for the security problems in the social network systems
- Presents the different types of the social networking systems including the internet and mobile devices
The main target of this book is to raise the awareness about social networking systems design, implementation, security requirements, and approaches. The book entails related issues including computing, engineering, security, management, and organization policy. It interprets the design, implementation and security threats in the social networks and offers some solutions in this concern.

Contents
Prolog: Das weiße Kaninchen.- Teil I: Quantum 2.0 – die zweite technologische Revolution aus der Welt der Quanten.- 1 Große Macht.- 2 Nach unten hin gibt es noch viel Platz.- 3 Technologien im [...]

Fields of Interest
Popular Computer Science; Quantum Computing; Quantum Information Technology, Spintronics; Quantum Physics; Nanoscale Science and Technology; Nanotechnology and Microengineering

Die zweite Quantenrevolution
Vom Spuk im Mikrokosmos zu neuen Supertechnologien
L. Jaeger

- Ein erhellender Blick auf die heute schon überwältigenden Entwicklungen, Möglichkeiten und Gefahren der modernen Quantentechnologien
- Heranführung an die unausweichlichen philosophischen und gesellschaftlichen Fragen der Quantenphysik
- Orientierung in der heutigen Diskussion der Physiker um die Deutung der Quantenphysik, auch im Vergleich zu den Gedanken der Gründungsväter der Quantentheorie um Einstein, Bohr, Heisenberg etc.

„Quantenphysik ist bizarr und komisch, und sie widerspricht komplett unserem gesunden Menschenverstand“ oder ganz einfach „Die spinnen, die Physiker“ - so oder ähnlich ist die Wahrnehmung vieler Menschen, wenn es um die Grundtheorie der modernen Physik geht.

Contents
Prolog: Das weiße Kaninchen.- Teil I: Quantum 2.0 – die zweite technologische Revolution aus der Welt der Quanten.- 1 Große Macht.- 2 Nach unten hin gibt es noch viel Platz.- 3 Technologien im [...]

Fields of Interest
Popular Computer Science; Quantum Computing; Quantum Information Technology, Spintronics; Quantum Physics; Nanoscale Science and Technology; Nanotechnology and Microengineering
Random Numbers and Computers
R. T. Kneusel

- Practical presentation and analysis of existing and historic pseudorandom number generation techniques. The hands-on presentation and descriptions give readers a practical knowledge to apply directly to their own work. Skipping the step of translating theoretical results into something directly applicable, it also lowers the bar for enjoying the book by not requiring a sophisticated math background. This is particularly beneficial to undergraduate students.
- Implementations, with walk-through, in C and Python, that includes descriptions of an algorithm followed by an implementation in a familiar and commonly used programming language with its own description. This reinforces the ideas behind the algorithm and provides code that can be used as-is or adapted intelligently.

This book covers pseudorandom number generation algorithms, evaluation techniques, and offers practical advice and code examples. Random Numbers and Computers is an essential introduction or refresher on pseudorandom numbers in computer science.

Software Languages
Syntax, Semantics, and Metaprogramming
R. Lämmel

- The first textbook on software language engineering, with a strong focus on application areas such as domain-specific languages, software composition, and software reverse engineering.
- Covers a wide range of languages, from functional languages like Haskell to mainstream programming languages like Java and modeling languages like UML.
- Complemented by a website providing additional teaching material such as lecture slides, software artifacts, and videos.

This book identifies, defines and illustrates the fundamental concepts and engineering techniques relevant to applications of software languages in software development.

Crowdsourced Data Management
Hybrid Machine-Human Computing
G. Li, J. Wang, Y. Zheng, J. Fan, M. J. Franklin

- The first introductory book on crowdsourced data management.
- Based on the tutorial course ‘Crowdsourced Data Management’ given at SIGMOD 2017.

This book provides an overview of crowdsourced data management. Covering all aspects including the workflow, algorithms and research potential, it particularly focuses on the latest techniques and recent advances. The authors identify three key aspects in determining the performance of crowdsourced data management: quality control, cost control and latency control.

Contents

Fields of Interest
Big Data; Database Management; Special Purpose and Application-Based Systems; Data Mining and Knowledge Discovery; Mobile Computing.
Logical Foundations of Cyber-Physical Systems
A. Platzer

- Supported with detailed lecture notes, lecture videos, homework assignments, and lab assignments
- Cornerstone of author’s course is hybrid programs (HPs), capturing dynamical aspects of cyber-physical systems (CPSs) in a simple programming language
- Teaches skills required to formally analyze ubiquitous CPSs, such as power plants and pacemakers

Cyber-physical systems (CPSs) combine cyber capabilities, such as computation or communication, with physical capabilities, such as motion or other physical processes. Cars, aircraft, and robots are prime examples, because they move physically in space in a way that is determined by discrete computerized control algorithms. […]

Contents

Fields of Interest
Mathematical Logic and Formal Languages; Artificial Intelligence (incl. Robotics); Mathematical Logic and Foundations; Control, Robotics, Mechatronics; Quality Control, Reliability, Safety and Risk

August 2018
XXI, 639 p. 182 illus., 176 illus. in color. Hardcover.
155 x 235 mm
£ 39.99 | € 44.99 | $ 49.99
ISBN 978-3-319-63587-3

Das Gespinst der Digitalisierung
Menschheit im Umbruch – Auf dem Weg zu einer neuen Weltanschauung
U. Sendler

- Erläutert die Hintergründe und das Wesen der Digitalisierung
- Mit allen technischen und gesellschaftlichen Hintergründen der digitalen Transformation
- Eine positive Utopie einer digitalen Gesellschaft

Übernehmen bald die Roboter? Hat die Menschheit noch eine Zukunft? Und was hat das mit der Ausbreitung des Populismus zu tun? Das Buch spannt einen Bogen von der Digitalisierung zu aktuellen gesellschaftspolitischen Umbrüchen. […]

Fields of Interest
Popular Computer Science; Computers and Society; Democracy; Information Systems and Communication Service

September 2018
XXI, 302 S. Book + eBook. Hardcover.
155 x 235 mm
£ 19,99 | € 22,84 | $ 27.99
ISBN 978-3-658-21896-6

Logics for Computer Science
Classical and Non-Classical
A. Wasilewska

- Offers a comprehensive, intuitive understanding of different logics and discusses some of their applications to Computer Science, and also makes readers understand the need of, and existence of Symbolic Logic as a scientific field
- Book chapters are as self-contained as possible so that they can be combined in different sequences depending of the level of a course one wants to teach it and of material one wants to teach, whether in Computer Science, Mathematics, or Artificial Intelligence
- Includes long intuitive introductions to each chapter, many detailed examples explaining each of the introduced notions and definitions, and well-chosen sets of exercises with carefully written solutions. It also contains samples of quizzes and tests after each chapter

Providing an in-depth introduction to fundamental classical and non-classical logics, this textbook offers a comprehensive survey of logics for computer scientists. Logics for Computer Science contains intuitive introductory chapters explaining the need for logical investigations, motivations for different. […]

Fields of Interest
Logics and Meanings of Programs; Mathematical Logic and Foundations; Artificial Intelligence (incl. Robotics)

September 2018
178 x 254 mm
£ 89,99 | € 99,99 | $ 119.99
ISBN 978-3-319-92590-5
Web Content Credibility
A. Wierzbicki

• Provides the first comprehensive overview of a new research area of rapidly growing importance
• Combines empirical research and mathematical models of credibility evaluation
• Exemplifies results in various social media like Twitter or Wikipedia

This book introduces readers to Web content credibility evaluation and evaluation support. It highlights empirical research and establishes a solid foundation for future research by presenting methods of supporting credibility evaluation of online content, together with publicly available datasets for reproducible experimentation, such as the Web Content Credibility Corpus.

Contents

Fields of Interest
Information Systems Applications (incl. Internet); User Interfaces and Human Computer Interaction; Media Design; Software Engineering

Learning Java with Games
C-W. Xu

• Games classified into text-based, event-driven based, and sprite-animation based, so that every game could be incrementally built up
• Lets teachers and students easily recognize and schedule their projects. The Java language elements are introduced accordingly, from static to dynamic

This innovative approach to teaching Java language and programming uses game design development as the method to applying concepts. Instead of teaching game design using Java, projects are designed to teach Java in a problem-solving approach that is both a fun and effective. Learning Java with Games introduces the concepts of Java and coding; then uses a project to emphasize those ideas.

Contents
1 Java programming and game development: a project HelloWorld 2 Basics of Java programming: a project PrintXmasCard3 Java operators: a game GuessInt in text 4 UML and its usage: a game [...]

Fields of Interest
Programming Languages, Compilers, Interpreters; Java; Programming Techniques; Game Development

A First Introduction to Quantum Computing and Information
B. Zygelman

• Introduces beginning undergraduate students to Quantum Theory and developments in QIC, without exposure to upper-level physics and mathematics
• Allows a broad-range of course offerings spanning Physics, Engineering, Math and Computer Science
• Integrates Mathematica-based software examples and projects into the textbook, which offers a “hands-on” experience and facilitates navigation of difficult abstract concepts

This book addresses and introduces new developments in the field of Quantum Information and Computing (QIC) for a primary audience of undergraduate students. Developments over the past few decades have spurred the need for QIC courseware at major research institutions. This book broadens the exposure of QIC science to the undergraduate market.

Contents
1 A Quantum Mechanic’s Toolbox.- 2 Apples and Oranges: Matrix Representations.- 3 Circuit Model of Computation.- 4 Quantum Killer Apps: Quantum Fourier Transform and Search Algorithms.- 5 Quantum [...]

Fields of Interest
Logics and Meanings of Programs; Quantum Computing; Quantum Physics
International Practice Theory
C. Bueger, F. Gadinger

- A leading introduction to the most important recent theoretical innovation in political science and international relations
- Guidance in how to draw on past theoretical work to conduct solid empirical work
- Orientation about what the main puzzles and future challenges of the practice research agenda are

International Practice Theory is the definitive introduction to the practice turn in world politics, providing an accessible, up-to-date guide to the approaches, concepts, methodologies and methods of the subject. [...] 

Contents
1. Introducing International Practice Theory.
2. Situating practice in Social Theory and International Relations.
3. Approaches in International Practice Theory I.
4. Approaches in [...] 

Fields of Interest
International Relations; Political Sociology; Political Theory; Social Theory

The World Community and the Arab Spring
C. Çakmak, A. O. Özcêlik (Eds)

- Combines theory and case studies to shed light on how the international community responds to a crisis of global concerns
- Fills a gap in the literature by answering the question of how the international community has responded to the Arab Spring
- Provides in-depth analysis of the policies followed by international organizations, great powers, and regional powers

This edited volume offers an understanding of how the international community, as a collection of significant actors including major states and intergovernmental institutions, has responded to the important political and social development of the Arab Spring. [...] 

Contents
1. Introduction: Maintaining Relevance between Study of International Society and Arab Spring.
2. The United Nations and the Arab Spring.
3. A Litmus Test for Europe: EU Mediterranean Politics [...] 

Fields of Interest
Foreign Policy; Middle Eastern Politics; International Relations Theory; Conflict Studies; Regionalism; Comparative Politics

American Presidential Candidate Spouses
The Public’s Perspective
L. Elder, B. Frederick, B. Burrell

- Offers the most comprehensive study published to date looking at public attitudes toward American presidential candidate spouses
- Examines aggregate and individual survey data to document trends on how presidential candidate spouses are viewed by the public over the past three decades
- Demonstrates that attitudes toward presidential candidate spouses can be understood in systematic terms rather than random fluctuations
- Offers the first theoretically based exploration of the public’s evaluations of the 2016 candidate spouses, Melania Trump and Bill Clinton

The book offers a comprehensive analysis of public opinion toward presidential candidate spouses over the course of three decades, drawing on multiple theoretical frameworks including the concept of “new traditionalism” and a plethora of empirical data to explore why some spouses engender greater support than others—and what these reactions reveal about the American public and the gendered nature [...] 

Fields of Interest
Popular Science in Political Science and International Relations; US Politics; Politics and Gender; Political Leadership

March 2018
148 x 210 mm
£ 19.50 | € 34.99 | $ 34.99
ISBN 978-3-319-73349-4

All Languages Rights

August 2018
XIX, 425 p. 5 illus., 3 illus. in color. Hardcover.
148 x 210 mm
£ 89.99 | € 99.99 | $ 119.99
ISBN 978-3-319-60984-3

All Languages Rights

April 2018
XV, 158 p. 16 illus. Softcover.
148 x 210 mm
£ 16.50 | € 29.99 | $ 29.99
ISBN 978-3-319-73878-9

All Languages Rights
Aesthetic Labour
Rethinking Beauty Politics in Neoliberalism
A. S. Elias, R. Gill, C. Scharff (Eds)

- Presents the case for an original concept: ‘aesthetic labour’
- Marries scholarship on feminism and the ‘beauty myth’ with that of new forms of work
- Explores a range of topics from an international and cross-disciplinary perspective

This volume approaches questions about gender and the politics of appearance from a new perspective by developing the notion of aesthetic labour. [...] 

Contents
Preface; Susie Orbach.- Part I: Aesthetic Labouring.- 1. Seriously girly fun!: Recontextualising Aesthetic Labour as Fun and Play in Cosmetics Advertising; Michelle Lazar.- 2. Rethinking Ruskin’s [...] 

Fields of Interest
Political Theory; Social Structure, Social Inequality; Sociology of Work

Series Title
Dynamics of Virtual Work

Weird IR
Deviant Cases in International Relations
D. B. Mislan, P. Streich

- Analyzes strange events in international relations that test commonly accepted theories
- Engages readers of various levels with its use of a humorous tone
- Explores otherwise understudied cases in international relations history

The scholarly study of international relations tends to go over the same cases, issues, and themes. This book addresses this by challenging readers to think creatively about international politics. It highlights some of the strangest and rarest phenomena in diplomacy and world politics. [...] 

Contents

Fields of Interest
International Relations Theory; Diplomacy; Foreign Policy; Politics and Gender; Political Leadership; Migration

E-Participation in Smart Cities: Technologies and Models of Governance for Citizen Engagement
M. P. Rodríguez Bolívar, L. Alcaide Muñoz

- Provides up-to-date information on important developments regarding public value creation and smart cities
- Defines public value in terms of smart cities and the need for transforming governments to foster public policies
- Presents insightful analysis about the organizational issues that public managers and politicians have to deal with the introduction of smart technologies to achieve public value creation in the city

This book analyzes e-participation in smart cities. In recent decades, information and communication technologies (ICT) have played a key role in the democratic political and governance process by allowing easier interaction between governments and citizens, and the increased ability of citizens to participate in the production chain of public services. [...] 

Fields of Interest
Public Policy; Political Communication; Public Administration; Globalization

Series Title
Public Administration and Information Technology

January 2018

All Languages Rights

July 2018
XI, 197 p. 4 illus. in color. Hardcover. 148 x 210 mm £ 54,99 | € 64,99 | $ 79.99 ISBN 978-3-319-75555-7

All Languages Rights

August 2018

All Languages Rights
How Is Terrorism Changing Us?
Threat Perception and Political Attitudes in the Age of Terror
M. Vergani

• Assesses if the fear of terrorism plays a role in changing the public opinion
• Looks at more subtle psychological mechanisms to explain changes in political views following the threat of terrorism
• Elaborates on the effects of the perceived threat of terrorism on the public opinion across different contexts, i.e. Europe, North America and Australia

This book examines how the perception of terrorism threat erodes civil liberties, sows doubt about the loyalties of immigrants, and heightens the left-right ideological divide. The book presents original analysis of survey data and experiments conducted in Australia, Europe and the United States. [..]

Contents

Fields of Interest
Political Communication; Terrorism and Political Violence; Media and Communication

May 2018
XVII, 174 p. 20 illus. Hardcover.
148 x 210 mm
£ 101.00 | € 114.99 | $ 139.00
ISBN 978-981-10-8065-4

All Languages Rights except Italian
The Web Was Done by Amateurs
A Reflection on One of the Largest Collective Systems Ever Engineered
M. Aiello

- Presents the evolution of the Web by combining historical facts with its technical evolution
- Addresses both technical and societal issues in connection with the Web's development
- Provides a novel analysis of the reasons behind the success of the Web

This book stems from the desire to systematize and put down on paper essential historical facts about the Web, a system that has undoubtedly changed our lives in just a few decades. But how did it manage to become such a central pillar of modern society, such an indispensable component of our economic and social interactions? How did it evolve from its roots to today? [...]  

Contents

Fields of Interest
Popular Computer Science; History of Computing; Web Development; Computers and Society; Information Systems Applications (incl.Internet)

Of Cigarettes, High Heels, and Other Interesting Things
An Introduction to Semiotics
M. Danesi

- Connects semiotics to cultural realities and trends
- Updates all content, working to make language more accessible and to replace outdated examples with contemporary subjects

This book deals with one the most interesting aspects of human life—the search for meaning. It discusses how the science of semiotics is equipped to provide insight on what meaning is and how we produce it. Why is it that certain people routinely put their survival at risk by smoking? Why is it that some women make locomotion difficult for themselves by donning high-heel footwear? [...]  

Contents

Fields of Interest
Popular Science in Cultural and Media Studies; Media and Communication; Semiotics; Popular Culture; Cultural Anthropology; Sociolinguistics

Mysteries of Mars
F. V. De Blasio

- Offers a readily intelligible, up-to-date introduction to the wonders of Mars
- Covers all aspects, from past perceptions of the planet to its geology, atmosphere, and climate
- Considers ten remaining intriguing mysteries in a more advanced way

This book introduces the reader to the wonders of Mars, covering all aspects from our past perceptions of the planet through to the latest knowledge on its history, its surface processes such as impact cratering, volcano formation, and glaciation, and its atmosphere and climate. In addition, a series of ten intriguing open issues are considered in a more advanced way. [...]  

Contents
Part I: Mars through the millennia.- Mars as a heavenly warrior.- Mars with its odd orbit enters science.- Schiaparelli, Lowell, and the Martians.- Martian engineers or Martian lichens?.- Mars as [...]  

Fields of Interest
Popular Science in Astronomy; Planetary Sciences; Planetology; Space Sciences (including Extraterrestrial Physics, Space Exploration and Astronautics); Astrobiology; Popular Earth Science

Series Title
Springer Praxis Books

July 2018
XIII, 168 p. 34 illus., 24 illus. in color. Softcover.
155 x 235 mm
£ 22.99 | € 24.99 | $ 29.99
ISBN 978-3-319-90007-0

All Languages Rights except Italian

May 2018
IX, 236 p. Softcover.
155 x 235 mm
£ 24.99 | € 29.99 | $ 34.99

All Languages Rights

October 2018
X, 188 p. 156 illus., 105 illus. in color. Softcover.
155 x 235 mm
£ 22.99 | € 24.99 | $ 29.99
ISBN 978-3-319-74783-5

All Languages Rights except Italian
The Robot Factory
Pseudoscience in Education and Its Threat to American Democracy
J. Ganem

- Takes a definitive stand in the debate on education reform
- Criticizes data-driven education policy initiatives
- Exposes how politicians, education reformers, corporations, and the media propose that students study and manipulate science, to advance their own self-serving agendas

This book exposes a disturbing misuse of the scientific method to advance policies and agendas that are in fact detrimental to both science and education. [...] 

Contents

Fields of Interest
Popular Science in Education; Mathematics Education; Education Policy; Assessment, Testing and Evaluation

Rheuma ist behandeltbar
Ratgeber für Betroffene
E. Gromnica-Ihle

- Hilft die Krankheit zu verstehenVermittelt Sicherheit im Umgang mit den Symptomen und Einschränkungen
- Empfohlen von der Deutschen Rheuma-Liga Rheuma – was jetzt? Das Buch klärt verständlich auf, welche Formen es gibt, an welchen Symptomen die Krankheit zu erkennen ist und warum jemand erkrankt. Erfahren Sie, wie man Rheuma behandeln kann, was Ihnen hilft und was gut tut. Nach den ersten Anzeichen und der Diagnose des Arztes stellen sich dem Patienten viele Fragen, die dieses Buch beantwortet. [...] 

Contents
I Rheuma – eine Krankheit im Wandel.- 1 Rheuma hat viele Gesichter.- 2 Welche Beschwerden und Krankheitszeichen weisen auf Rheuma hin?- 3 Der Weg zur Diagnose.- 4 Rheuma ist heute gut [...] 

Fields of Interest
Popular Science in Medicine and Health; Rheumatology

How Could This Happen?
Managing Errors in Organizations
J. U. Hagen (Ed)

- Brings together contemporary scholarship on error management and leading industry practitioners for the first time
- Offers a rare glimpse into error management in extremely high stakes professional environments
- Provides a vital reference tool for organizations and leaders who want to learn from mistakes, rather than just shift the blame

The first comprehensive reference work on error management, blending the latest thinking with state of the art industry practice on how organizations can learn from mistakes. Even today the reality of error management in some organizations is simple: “Don’t make mistakes. [...] 

Contents
1 Fast, Slow, and Pause: Understanding Error Management via a Temporal Lens.- 2 Errors and Learning for Safety: Creating Uncertainty As an Underlying Mechanism.- 3 When Silence is not Golden.- 4 [...] 

Fields of Interest
Popular Science in Business and Management; Business Strategy/Leadership
Total allergisch – na und?
Das Mutmacherbuch bei Neurodermitis, Heuschnupfen, Asthma & Co
D. Halm

- Das Buch bietet einen neuen Blick auf Allergien: persönliche Erfahrungen, viele konkrete Tipps, um die Allergie im Alltag zu meistern, und fundiertes Hintergrundwissen
- Verständlich und spannend erzählt – eine erlebnisreiche Reise durch die Welt der Allergie

Contents

Fields of Interest
Popular Science in Medicine and Health; Allergology; Immunology

Frauenpower
Mentale Stärke für Frauen
A. Heimsoeth

- Ein an weiblichen Bedürfnissen ausgerichteter Leitfaden zur persönlichen Weiterentwicklung.
- Für jede Frau, die ein selbstbestimmtes Leben führen will, egal ob privat oder beruflich.
- Erprobte, alltagstaugliche Tipps, Übungen und Techniken aus der Praxis für die Praxis.
- Selbstervertrauen, Selbstbewusstsein sowie ein gutes Selbstmanagement sind Schlüsselfaktoren für den Erfolg – nicht nur im Business. Besonders für Frauen stellen diese Themen eine besondere Herausforderung dar, wenn es darum geht, ein selbstbestimmtes Leben zu führen. [...] 

Contents

Fields of Interest
Popular Science in Business and Management; Feminism

Towards Digital Enlightenment
Essays on the Dark and Light Sides of the Digital Revolution
D. Helbing (Ed)

- A new collection of essays by the author of the successful volume Thinking Ahead - Essays on Big Data, Digital Revolution, and Participatory Market Society
- Examines the dangers of a world in which algorithms and social bots aim to control both the societal dynamics and individual behaviors.

This new collection of essays follows in the footsteps of the successful volume Thinking Ahead - Essays on Big Data, Digital Revolution, and Participatory Market Society, published at a time when our societies were on a path to technological totalitarianism, as exemplified by mass surveillance reported by Edward Snowden and others. [...] 

Fields of Interest
Popular Social Sciences; Popular Science in Political Science and International Relations; Complex Systems; Complexity; Computational Social Sciences; Societal Aspects of Physics, Outreach and Education

September 2018
XIV, 140 S. 20 Abb. in Farbe. Book + eBook. Softcover. 127 x 190 mm
£ 9,99 | € 16,45 | $ 19.99
ISBN 978-3-662-57271-9

May 2018
XIX, 266 S. 54 Abb. Book + eBook. Softcover. 148 x 210 mm
£ 16,99 | € 18,27 | $ 29.99
ISBN 978-3-658-20430-3

September 2018
XII, 222 p. 9 illus. in color. Softcover. 155 x 235 mm
£ 19,99 | € 22,99 | $ 27.99
ISBN 978-3-319-90868-7

All Languages Rights

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Tribalism
The Evolutionary Origins of Fear Politics
S. E. Hobfoll

- Places the concept of "tribal politics" within the context of Trump's rise, the 2016 Election, and growing polarization in American politics
- Provides an empirical and evolutionary basis for the prevalence of tribal politics and the politics of fear, distinct from most books on the topic that employ a historical or political approach

Unearthing the most primal motivations behind the fear politics movements sweeping across the USA, Europe, and the Middle East, Stevan E. Hobfoll examines how the increasing sense of threat from the political and cultural “other” or “outsider” engenders an evolutionary, built-in “defend and aggress” response. [...]

Contents
1. The Tribal Self and the Power of Catastrophic Threat Messaging
2. Threat and the Tribal Self
3. Truth and Rationality become Casualties of Fear
4. Historical Threat and the Priming of [...]

Fields of Interest
Popular Science in Psychology; Critical Psychology; Personality and Social Psychology; Biological Psychology

The Innovators Behind Leonardo
The True Story of the Scientific and Technological Renaissance
P. Innocenzi

- Provides a frequently overlooked perspective on the work of Leonardo da Vinci as part of a collective effort that formed the foundation of the scientific and technological Renaissance
- Includes numerous illustrations from a range of original sources to allow for easy and pleasant reading
- Accessible to anyone with a high school-level understanding of science and technology

This engaging book places Leonardo da Vinci’s scientific achievements within the wider context of the rapid development that occurred during the Renaissance. It demonstrates how his contributions were not in fact born of isolated genius, but rather part of a rich period of collective advancement in science and technology, which began at least 50 years prior to his birth. [...]

Fields of Interest
Popular Science in Technology; History of Technology; History and Philosophical Foundations of Physics; History of Science; History of Mathematical Sciences; Engineering Design

Mensch! Erstaunliches über den Körper
M. Kahl-Scholz

- Bemerkenswerte Fakten aus der Medizin
- Lassen Sie sich von verblüffenden neuen Erkenntnissen überraschen
- Lernen Sie Erstaunliches über sich selbst


Contents

Fields of Interest
Popular Science in Medicine and Health
Sanfte Hausmittel für Frauen
Für Heilung, Linderung und Wohlbefinden
A. Kerckhoff, S. Werner

- Häufige Beschwerden von Frauen mit Hausmitteln selbst behandeln: sanft, sicher und schnell
- Selbstfürsorge und Linderung: rasch das richtige Hausmittel finden
- Für Ihre Sicherheit: jedes Rezept mit Hinweisen zu Vorsichtsmaßnahmen, Neben- und Wechselwirkungen

Dieses Buch möchte Sie anregen und unterstützen, bei häufigen Beschwerden von Frauen selbst aktiv zu werden. Es informiert über natürliche und leicht anzuwendende naturheilkundliche Selbsthilfestrategien. Weiterhin finden Sie Tipps, um sich selbst etwas Gutes zu tun und sich zu verwöhnen. […]

Contents
Möglichkeiten und Grenzen von Hausmitteln.- Allgemeine Empfehlungen.- Beschwerden.- Rezepte.

Fields of Interest
Popular Science in Medicine and Health; Gynecology

Entdecke das Riechen wieder
Warum es sich lohnt, die Welt mit der Nase wahrzunehmen
A. Keller

- Ein Buch über die (untergeordnete) Rolle, die das Riechen in unserem Leben spielt - und über die (viel bedeutsamere) Rolle, die es spielen könnte. Sehr breit angelegt: von der grundlegenden Biologie des Riechens über die soziologisch-historisch-kulturellen Konnotationen bis zu ganz modernen Facetten der Duftforschung in so unterschiedlichen Feldern wie Architektur, Museumsdidaktik, Kunst und Medizin
- Informativ und unterhaltsam

Warum es sich lohnt, die Welt mit der Nase wahrzunehmen Entdecke das Riechen wieder riecht wie alle anderen Bücher, aber nachdem Sie es gelesen haben, werden Bücher und vieles andere für Sie nicht mehr so riechen wie zuvor. […]

Contents
Teil I: Die Welt durch die Nase wahrnehmen. 1 Was ist Riechen?- 2 Duftmoleküle.- 3 Duftrezeptoren.- 4 Chemische Ökologie.- Teil II: Die Mysterien des Riechens. 5 Pheromone.- 6 Düfte als […]

Fields of Interest
Popular Science in Psychology; Behavioral Sciences; Neurobiology; Biological Psychology; Neurosciences; Cultural Anthropology

Wacky and Wonderful Misconceptions About Our Universe
G. Kirby

- Provides a unique compendium of odd astronomical and cosmological theories, covering lesser known but equally entertaining stories
- Offers a lighthearted, easy-to-understand look into the history of astronomical and scientific thought throughout the ages, requiring no prior background in astronomy
- Includes over 100 photographs and diagrams to illustrate key concepts and misconceptions covered by the text From unicorns on the Moon to UFOs piloted by Martian bees, this book chronicles some of the strangest ideas that have been put forward – and have actually been believed in -- about our Solar System. […]

Contents

Fields of Interest
Popular Science in Astronomy; Astronomy, Observations and Techniques; History of Science; Cosmology

Series Title
Astronomers’ Universe

May 2018
XII, 184 S. 32 Abb. in Farbe. Softcover. 155 x 235 mm
£ 16,99 | € 18,68 | $ 29.99
ISBN 978-3-662-55615-3

All Languages Rights

January 2019
Etwa 310 S. Book + eBook. Softcover. 127 x 190 mm
£ 16,99 | € 18,27 | $ 29.99
ISBN 978-3-662-57260-3

All Languages Rights

May 2018
XVI, 258 p. 128 illus., 50 illus. in color. Softcover. 155 x 235 mm
£ 19,50 | € 34,99 | $ 34.99
ISBN 978-3-319-73021-9

All Languages Rights
A Brief History of Everything Wireless
How Invisible Waves Have Changed the World
P. Launiainen

- Provides a focus on the context and consequences of the application of wireless technologies on a global scale
- Presents an approach in which technology is explained through events in history
- Accessible to the general reader interested in what makes the modern world tick, and how we got to where we are now

Since the discovery of electromagnetic waves less than 150 years ago, the application of wireless communications technology has not only revolutionized our daily lives, but also fundamentally changed the course of world history. A Brief History of Everything Wireless charts the fascinating story of wireless communications. [...]
Rockets and Ray Guns: The Sci-Fi Science of the Cold War

A. May

- Vividly portrays how Science Fiction anticipated many of the key scientific developments of the Cold War
- Offers a plethora of little known facts and insights from previously classified military projects
- Shows how Cold War science and related SF changed our perception of science and scientists

The Cold War saw scientists in East and West racing to create amazing new technologies, the like of which the world had never seen. Yet not everyone was taken by surprise. From super-powerful atomic weapons to rockets and space travel, readers of science fiction (SF) had seen it all before. Sometimes reality lived up to the SF vision, at other times it didn't. [...] 

Contents

Fields of Interest
Popular Science in Physics; Popular Science in Technology; Security Science and Technology; Societal Aspects of Physics, Outreach and Education

Series Title
Science and Fiction

July 2018
VI, 214 p. 35 illus., 36 illus. in color. Softcover. 
155 x 235 mm 
£ 19.99 | € 22.99 | $ 27.99 
ISBN 978-3-319-89829-2

All Languages Rights
BREXIT aus Versehen
Europäische Union zwischen Desintegration und neuer EU

P. J.J. Welfens

- Was Sie über das Jahrhundertereignis BREXIT wissen müssen
- Wie der Schock für die Europäische Integration genutzt werden kann
- Enthält brandaktuelle Debatten, Interviews und Prognosen

In diesem Buch wird eine klare Analyse der BREXIT-Widersprüche von Premierministerin Theresa Mays Global Britain-Politik und der Rolle der Finanzmärkte - bei Bankenaufsicht in einem Umfeld mit drohendem ITALEXIT und transatlantischen Trump-Handelskonflikten - durchgeführt.

Contents
Das Referendum.- BREXIT-Effekte.- EU-Entwicklungen.- Stand der Debatte vor der parlamentarischen EU-Austrittsentscheidung.- Szenarien.

Fields of Interest
Popular Science in Economics; Popular Science in Finance; Popular Science in Business and Management; International Business; European Integration
Handbuch Methoden der empirischen Sozialforschung

N. Baur, J. Blasius (Eds)

- Das erfolgreiche Handbuch in vollständig überarbeiteter und um zahlreiche Kapitel erweiterter Auflage
- Ein neuer, umfangreicher Teil zu digitalen Methoden enthält u.a. Kapitel zu Big Data, Logfiles, Websites, Blogs, Chats, Twitter, Facebook, YouTube, digitaler Selbstvermessung, digitalen Spielen und Text Mining
- Umfassende Darstellung sowohl quantitativer als auch qualitativer Ansätze

Das Handbuch ist das erste im deutschen Sprachraum, in dem qualitative und quantitative Methoden gleichberechtigt dargestellt werden und in dem systematisch nach Gemeinsamkeiten und Unterschieden hinsichtlich Problemen, Prinzipien, Vorgehensweisen, Standards und Gütekriterien für beide Forschungstraditionen gefragt wird. [...]

Contents
Grundlagen der empirischen Sozialforschung.- Stichproben, Datenaufbereitung und Güte.- Forschungsparadigmen in der qualitativen Sozialforschung.- Offene Befragung.- Standardisierte Befragung.- [...]

Fields of Interest
Methodology of the Social Sciences; Sociological Theory; Research Methodology; Humanities and Social Sciences, multidisciplinary; Research Methods in Education

Conspiracy & Populism
The Politics of Misinformation
E. Bergmann

- Combines two fields of literature to consider how conspiracy theories and populism intersect
- Identifies specifically right-wing populist conspiracy theories
- Analyses the rapid proliferation of conspiracy theories Europeans are being replaced by foreign invaders, aided by cultural Marxists who are plotting an Islamist subversion of the continent. The Bilderberg group – and/or the Illuminati – are instating a totalitarian New World Order. Angela Merkel is the secret daughter of Adolf Hitler, Barack Obama was illegitimate, and George W. Bush was in on the 9/11 attacks. [...] 

Contents
Chapter 1 Introduction.- Chapter 2 Kinds of conspiracy theories.- Chapter 3 The anatomy of conspiracy theories.- Chapter 4 Dissecting populism.- Chapter 5 Disrupting the trust: nature of populist [...] 

Fields of Interest
Popular Science in Political Science and International Relations; Democracy; European Politics; US Politics; Russian and Post-Soviet Politics; Political Sociology

Bioarchaeologists Speak Out
Deep Time Perspectives on Contemporary Issues
J. Buikstra (Ed)

- Bioarchaeological data are frequently overlooked, used selectively, and misused by popular writers and the media in characterizing, for example, past patterns of conflict, nutrition related disease, epidemics, massacres, and general health when faced with climate change
- Many contemporary topics are frequently misrepresented to non-scholarly audiences and why bioarchaeological data and bioarchaeologists are too infrequently engaged in public representations
- Bioarchaeologists need more active and engaged professionals to become public intellectuals in order to prevent misconceptions and demonstrate the importance of our research to modern populations.

Bioarchaeologists who study human remains in ancient, historic and contemporary settings are securely anchored within anthropology as anthropologists, yet they have not taken on the pundits the way other subdisciplines within anthropology have. [...] 

Contents
Chapter 1 Introduction.- Chapter 2 Kinds of conspiracy theories.- Chapter 3 The anatomy of conspiracy theories.- Chapter 4 Dissecting populism.- Chapter 5 Disrupting the trust: nature of populist [...] 

Fields of Interest
Archaeology

Series Title
Bioarchaeology and Social Theory
The Romantic Ethic and the Spirit of Modern Consumerism

New Extended Edition

C. Campbell

- Highly interdisciplinary and path-breaking book theorizing modern consumer society, its historical origins, and cultural context
- Grapples with the complex sociological conundrum of the emergence of a consumer-oriented society in a Europe that once valued Weber’s Protestant ethic
- Updates one of the most widely cited works in sociology, especially in the sub-fields of sociology of culture, sociology of consumption, and sociological theory

Originally published in 1987, Colin Campbell’s classic treatise on the sociology of consumption has become one of the most widely cited texts in sociology, anthropology, cultural studies, and the history of ideas. In the thirty years since its publication, The Romantic Ethic and the Spirit of Modern Consumerism has lost none of its impact. [...]
Diversity Management in Organisationen der Sozialwirtschaft
Eine Einführung
S. A. Dreas

- Diversität in Organisationen des Sozialwesens
- Konzeptezur Bearbeitung und und zum Umgang mit Verschiedenheiten und Gemeinsamkeiten
- Eine grundlegende Einführung in ein relevantes Thema


Contents

Fields of Interest
Social Work; Social Choice/Welfare Economics/Public Choice

Series Title
Basiswissen Sozialwirtschaft und Sozialmanagement

October 2018
150 S. Softcover.
148 x 210 mm
£ 16,99 | € 18,68 | $ 29.99
ISBN 978-3-658-20545-4

All Languages Rights

#Crime
Social Media, Crime, and the Criminal Legal System
R. M. Hayes, K. Luther

- Asks how social media influences criminal justice
- Draws on interviews with a range of academic experts and practitioners internationally
- Includes case study examples, study questions, and further reading to appeal to a student audience

As research continues to accumulate on the connections between media and crime, #Crime explores the impact of social media on the criminal legal system. It examines how media influences our perceptions of crime, the perpetration of crime, and the implementation of punishment, whilst emphasizing the significance of race, ethnicity, class, gender, and sexuality. [...]

Contents
Chapter 1. Introduction.- Chapter 2: #Crime: The Theoretical Underpinnings.- Chapter 3: #CSIEffect: How Media Impacts the Criminal Legal System.- Chapter 4: #CrimingWhileWhite: Media's [...]  

Fields of Interest
Popular Science in Law; Crime and the Media; Crime and Society; Social Media; Gender Studies; Media and Communication

Series Title
Palgrave Studies in Crime, Media and Culture

August 2018
XII, 156 p. 1 illus. Softcover.
148 x 210 mm
£ 24,99 | € 27,99 | $ 34.99
ISBN 978-3-319-89443-0

All Languages Rights

Learning To Live Together: Promoting Social Harmony
J. A. S. Kelso (Ed)

- Focuses on different aspects of our living together such as the role of technology, economics, the neurosciences, climate, education, etc.
- Includes contributions from leading scientists including the Nobel Laureates Yuan T. Lee and Martin L. Perl
- Includes presentations from world leaders from science, technology, economics, politics and society from the eighth and ninth Olympiads of the Mind

This book is devoted to the issue of how we can learn to live together in the face of division and conflict. It is dedicated to the life and work of a remarkable human being, Dr Epimenidis Haidemenakis, scientist, statesman, visionary leader, President Emeritus of the International S.T.E.P.S. Foundation and founding father of The Olympiads of the Mind (OM).

Contents
The State Of The World.- Diversity And Integration.- The Brain's Trust.- Education And Culture.- Technology.- Messages And Recommendations.

Fields of Interest
Quality of Life Research; International Relations; Complexity; Environmental Economics; Environmental Politics; Neurosciences

June 2018
XIX, 234 p. 22 illus., 17 illus. in color. Hardcover.
155 x 235 mm
£ 74,99 | € 84,99 | $ 109.99
ISBN 978-3-319-90658-4

All Languages Rights
Social Networks and Surveillance for Society
T. Özyer, S. Bakshi, R. Alhajj (Eds)

- Describes state-of-the-art social network analysis techniques for surveillance and privacy
- Contains case studies showing how various domains such as cyber forensics benefit from social network analysis
- Includes practical test results from synthetic and real data

This book focuses on recent technical advancements and state-of-the-art technologies for analyzing characteristic features and probabilistic modelling of complex social networks and decentralized online network architectures. [...]

Contents
Chapter 1. Frauds in Online Social Networks: A Review.- Chapter 2. Leveraging Social Network Analysis and Cyber Forensics Approaches to Study Cyber Propaganda Campaigns.- Chapter 3. Hiding Self on [...]

Fields of Interest
Computational Social Sciences; Data Mining and Knowledge Discovery; Social Media; Computer Appl. in Social and Behavioral Sciences

Series Title
Lecture Notes in Social Networks

Medien und Gesundheit
D. Reifegerste, E. Baumann

- Kompakte und allgemein verständliche Darstellung Renommierte Autorinnen
- Für Studienanfänger und Quereinsteiger in das Thema geeignet
- Der Band befasst sich mit der Darstellung und Rezeption von Gesundheitsthemen in den Medien und gesundheitsrelevanter medialer Kommunikation im Allgemeinen. Sowohl die Medienlandschaft und das alltägliche Informations- und Kommunikationsverhalten als auch der Umgang mit Gesundheit und Krankheit befinden sich im Wandel. [...]

Contents
Einstieg: Welche Rolle spielen Medien für die Gesundheit?.- Aufbau des Bandes.- Gesundheitsthemen in den Medien.- Medienutzung zur Gesundheitsinformationssuche.- Gesundheitskampagnen.- [...]

Fields of Interest
Communication Studies; Media Sociology

Series Title
Medienwissen kompakt

Die “Heilige Ordnung” der Männer
Hierarchie, Gruppendynamik und die neue Genderlogik
G. Schwarz

- Analyse des Gruppenverhaltens von Männern und Frauen
- Neue Logik in der Hierarchie
- Über die Krise des hierarchischen Systems und ihre Lösungsmöglichkeiten

Dieses Buch ist der Versuch, die Krise des hierarchischen Systems zu analysieren und Möglichkeiten einer Weiterentwicklung aufzuzeigen. Einer der möglichen Wege ist dabei eine Neubelebung der Gruppen, die in der Urgeschichte eine wichtige Bedeutung für das Zusammenleben der Menschen hatten. [...]

Contents

Fields of Interest
Organizational Studies, Economic Sociology; Consulting, Supervision and Coaching; Behavioral/Experimental Economics; Men’s Studies; Cultural Studies; Social Anthropology
Beauty and the Norm
Debating Standardization in Bodily Appearance

C. Liebelt, S. Böllinger, U. Vierke (Eds)

- Presents a well-rounded, nuanced, and cutting-edge discussion of the globalization of beauty
- Engages with concepts of beauty using case studies from around the globe
- Locates beauty ideals and ideas within larger discussions of disability, race, feminism, art and media representations, and bodily politics

Recent decades have seen the rise of a global beauty boom, with profound effects on perceptions of bodies worldwide. Against this background, Beauty and the Norm assembles ethnographic and conceptual approaches from a variety of disciplines and across the globe to debate standardization in bodily appearance. [...]
Handbook of Legal Reasoning and Argumentation
G. Bongiovanni, G. Postema, A. Rotolo, G. Sartor, C. Valentini, D. Walton (Eds)

- The only work to provide a comprehensive, thematic and systematic account of legal reasoning
- The first work on legal reasoning which systematically discusses it in relation to logics and philosophies of practical reason
- A multidisciplinary focus provides a good balance of formal (logical), philosophical and legal aspects

This handbook addresses legal reasoning and argumentation from a logical, philosophical and legal perspective. The main forms of legal reasoning and argumentation are covered in an exhaustive and critical fashion, and are analysed in connection with more general types (and problems) of reasoning. Accordingly, the subject matter of the handbook divides in three parts. [..]

Contents
Contributors. - Introduction.- PART I Basic Concepts for Legal Reasoning.- Chapter 1 Reasons (and Reasons in Philosophy of Law); Giorgio Bongiovanni.- Chapter 2 Reasons in Moral Philosophy; Carla [...]

Fields of Interest
Philosophy of Law; Theories of Law, Philosophy of Law, Legal History, Logic

The Extravagance of Music
D. Brown, G. Hopps

- Discusses the power of music, and its ability to convey suggestions of the divine
- Challenges the dominant approach to music
- Offers a new methodological paradigm for thinking about the religious significance of music

This book explores the ways in which music can engender religious experience, by virtue of its ability to evoke the ineffable and affect how the world is open to us. [..]

Contents

Fields of Interest
Philosophy of Religion; Philosophy of Music; Music

Relativity without Spacetime
J. K. Cosgrove

- One of the first critical studies on the theory of geometrically merged space and time in Einstein’s theory of relativity
- Analyzes mathematical representation in physics historically
- Applies Jacob Klein’s seminal scholarship on the modern symbolic concept of number to a theory of physics

In 1908, three years after Einstein first published his special theory of relativity, the mathematician Hermann Minkowski introduced his four-dimensional “spacetime” interpretation of the theory. [..]

Contents
Chapter 1: A Critique of Minkowski Spacetime.- Chapter 2: Minkowski’s “Space and Time”.- Chapter 3: Special Relativity and Spacetime.- Chapter 4: The Historical Sense-Structure of Symbolic [...]

Fields of Interest
Philosophy of Science; History and Philosophical Foundations of Physics; Astronomy, Astrophysics and Cosmology
**Ethics without Self, Dharma without Atman**  
*Western and Buddhist Philosophical Traditions in Dialogue*  
G. F. Davis (Ed)

- Is unique in its coverage of multiple traditions in the history of philosophy  
- Addresses the relationship between personal identity and the scope of moral obligation  
- Is the first book to compare Buddhist philosophical ideas with both ancient and modern Western philosophers

This volume of essays offers direct comparisons of historic Western and Buddhist perspectives on ethics and metaphysics, tracing parallels and contrasts all the way from Plato to the Stoics, Spinoza to Hume, and Schopenhauer through to contemporary ethicists such as Arne Naess, Charles Taylor and Derek Parfit.

**Contents**


**Fields of Interest**  
Ethics; Buddhism; History of Philosophy

**Series Title**  
Sophia Studies in Cross-cultural Philosophy of Traditions and Cultures

---

**The Future of Engineering**  
*Philosophical Foundations, Ethical Problems and Application Cases*  
A. Fritzsche, S. J. Oks (Eds)

- Examines contemporary challenges to engineering's identity as a profession and its role in society  
- Creates promising connections between different disciplines and views from different cultures  
- Includes papers by both established experts and upcoming stars in the field  

In a world permeated by digital technology, engineering is involved in every aspect of human life. Engineers address a wider range of design problems than ever before, raising new questions and challenges regarding their work, as boundaries between engineering, management, politics, education and art disappear in the face of comprehensive socio-technical systems.

**Fields of Interest**  
Engineering Ethics; Engineering Economics, Organization, Logistics, Marketing; Engineering/Technology Education; Science and Technology Studies; Philosophy of Technology

**Series Title**  
Philosophy of Engineering and Technology

---

**Paradox Lost**  
*Logical Solutions to Ten Puzzles of Philosophy*  
M. Huemer

- Offers distinctive solutions to the most fascinating philosophical paradoxes  
- Preserves classical logic and decision theory in solving these perennial questions  
- Written in Huemer’s famously accessible writing style

Paradox Lost covers ten of philosophy’s most fascinating paradoxes, in which seemingly compelling reasoning leads to absurd conclusions. The following paradoxes are included: The Liar Paradox, in which a sentence says of itself that it is false. Is the sentence true or false? The Sorites Paradox, in which we imagine removing grains of sand one at a time from a heap of sand.

**Contents**


**Fields of Interest**  
Logic; Analytic Philosophy; Metaphysics

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**June 2018**  
XIV, 284 p. Hardcover.  
155 x 235 mm  
£ 88.00 | € 99.99 | $ 109.00  
ISBN 978-3-319-67406-3

**July 2018**  
VIII, 300 p. 10 illus. Hardcover.  
155 x 235 mm  
£ 89.99 | € 99.99 | $ 119.99  
ISBN 978-3-319-91028-4

**July 2018**  
XXVII, 260 p. 20 illus. Softcover.  
148 x 210 mm  
£ 44.99 | € 49.99 | $ 59.99  
ISBN 978-3-319-90489-4

All Languages Rights
Jeder zählt
Was Demokratie ist und was sie sein soll
R. Kipke

- Wie halten wir es mit der Demokratie?
- Eine Antwort auf die aktuelle Diskussion!
- Klare, knappe und verständliche Analyse
- Grundlagen für ein bürgernahes Demokratieverständnis


Contents
**Auf der Suche nach der Seele Europas**

*K. van der Wal*

- Eine aktuelle Analyse zur Krise Europas
- Für einen neuen Anfang der Europäischen Union
- Einführung und Überblick

Europa ist ein Erfolgsmodell. Aber Europa steckt tief in der Krise. Und es erreicht seine Bürger nicht mehr. Dieses Buch geht der Krise auf den Grund und es schlägt eine Lösung vor, die tiefer ansetzt als die bisherigen Vorschläge. Europa, so die These, setzt blind nur auf die technokratische Seite der Moderne. [...]  

**Contents**


**Fields of Interest**  
Popular Science in Philosophy; Political Philosophy; European Union Politics; Political Theory

---

**Schopenhauer und die Folgen**

*R. Zimmer*

- Schopenhauer: Einer der meistgelesenen deutschen Philosophen im In- und Ausland
- Klassiker der Philosophiegeschichte, Wegbereiter der Psychoanalyse und der Lebensphilosophie
- Geschrieben von einem renommierten Autor in lockerem, essayistischem Stil

Unter den klassischen Philosophen gilt Arthur Schopenhauer (1788-1860) in der öffentlichen Wahrnehmung häufig als pessimistischer und menschenfeindlicher Außenseiter. Die akademische Philosophie tut sich bis heute schwer mit ihm. [...]  

**Contents**


**Fields of Interest**  
Philosophy, general

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**December 2018**

Etwas 140 S. Hardcover. 127 x 190 mm

£ 16.99 | € 18.68 | $ 29.99

ISBN 978-3-658-21136-3

All Languages Rights except Dutch
Interactive Media for Sustainability

R. Bendor

- Introduces the environmental communication community to forms of digital media
- Provides an interdisciplinary, theoretically rich framework for addressing the social, cultural and political contexts within which these media are designed and used
- Suggests a set of ‘boundary objects’ that will help facilitate interdisciplinary dialogue between media designers and environmental communicators

Interactive Media for Sustainability presents a conceptually rich, critical account of the design and use of interactive technologies to engage the public with sustainability. Treating interactive technologies as forms of mediation, the book argues that these technologies advance multiple understandings of sustainability. [...]​

Fields of Interest
Media and Communication; Sustainable Development; Sustainability Management; Digital Humanities; Social Media; Environmental Sociology

Series Title
Palgrave Studies in Media and Environmental Communication

---

Rethinking Genre in Contemporary Global Cinema

S. Dibeltulo, C. Barrett (Eds)

- One of the first books to offer extended study of film genre beyond the Hollywood case
- Offers analyses of a great range of films, genres, and movements through various methodologies to provide a diverse study of contemporary practice and theory
- Brings together leading scholars across cinematic traditions

Rethinking Genre in Contemporary Global Cinema offers a unique, wide-ranging exploration of the intersection between traditional modes of film production and new, transitional/transnational approaches to film genre and related discourses in a contemporary, global context. [...]​

Contents

Fields of Interest
Genre; Global Cinema; Global/International Culture; Close Reading; Film Theory

---

Medien, Geschichte und Wahrnehmung

Eine Einführung in die Mediengeschichte

K. Fahlenbrach

- Verständlich geschriebener Überblick zur Mediengeschichte aus einem neuen Blickwinkel
- Fokus auf die Veränderung der Wahrnehmung durch neue Medien
- Einführung in die medienphilosophische und -theoretische Diskursgeschichte

Wie hat in der Geschichte die Adressierung menschlicher Sinne und Wahrnehmung die Ausbildung von Schriftmedien, Telefon, Rundfunk, Kino oder Computer und anderen Medien geprägt? Und wie greifen dabei neue Medien die Techniken vorheriger Medien auf? [...]​

Contents

Fields of Interest
Media Studies; Media Sociology; Media Research; Popular Science in Cultural and Media Studies
Managing Media and Digital Organizations
E. M. Noam

- Applies dimensions of the MBA curriculum directly relevant to the entirety of the sector, aimed at advanced students and practitioners.
- Provides a comprehensive view of the functions of management across the media, communications, and information sector.

What does it take for success in the media business? Creativity, innovation, and performance, of course. Plus experience and good judgment. However, it also requires an understanding of the principles and tools of management. This book summarizes the major dimensions of a business school curriculum and applies them to the entire media, media-tech, and digital sectors. […]

Contents

Fields of Interest
Media and Communication; Media Management; Culture and Technology; Cultural Management; Management

Erfahrungsraum Oper
Porträts und Perspektiven
U. Schweikert

- Neue Blicke auf bekannte und unbekannte Werke und Komponisten
- Inspiration für Operngänger und Opernmacher
- Die Stimme eines der renommiertesten Opernkritiker deutscher Sprache

Die in diesem Band versammelten Essays zur Oper spannen einen weiten Bogen. Sie reichen vom Barock bis in die Moderne. Sie richten ihren Blick auf bekannte wie weniger bekannte Komponisten. Sie fragen nach deren Kunstkonzept, ihrer geschichtlichen Stellung und Wirkung. Neben breiter angelegten Porträts u.a. […]

Contents

Fields of Interest
Music
Media and the Government of Populations
Communication, Technology, Power
P. Dearman, C. Greenfield, P. Williams

- Applies an interdisciplinary approach to the relationship between communication and politics in the twenty-first century and earlier
- Examines both ‘old’ and ‘new’ media, as well as other communication contexts and practices important in society and politics
- Contributes to arguments about how communication literacy impacts power and the lives of specific populations

This book deals with the social, cultural and especially political significance of media by shifting from the usual focus on the public sphere and publics and paying attention to populations. It describes key moments where populations of different sorts have been subject to formative and diverse projects of governing, in which communication has been key. […]

Fields of Interest
Cultural History; Modern History; Political History; Media and Communication

Series Title
Palgrave Studies in the History of the Media

Encyclopaedia of Historical Metrology, Weights, and Measures
J. Gyllenbok

- Addresses the myriad units of measurement that have arisen through the ages, from weights used by ancient cultures to the scientific units of the modern world
Comprised from more than 4 500 published papers and books, all of which are reported in the bibliography
- Contains all 3 Volumes of the author’s encyclopedia of historical metrology
The first volume in this rendition set starts with a short introduction to historical metrology as a scientific discipline and goes on with an anthology of ancient and modern measurement systems of all kind, scientific measures, units of time, weights, currencies etc. It concludes with an exhaustive list of references. […]

Contents
Encyclopaedia of Historical Metrology, Weights, and Measures - Volume 1.
Encyclopaedia of Historical Metrology, Weights, and Measures - Volume 2.
Encyclopaedia of Historical Metrology, Weights, […]

Fields of Interest
Science, Humanities and Social Sciences, multidisciplinary

Series Title
Science Networks. Historical Studies

Das geteilte Deutschland
Die Geschichte 1945 – 1990
H. Kleinert

- Die Geschichte der Bundesrepublik auf einen Blick
- Klar, knapp und verständlich
- Einführung und Überblick
Dieses Buch bietet eine anschaulich erzählte und spannend zu lesende Gesamt darstellung der deutschen Geschichte von 1945 bis 1990, der Geschichte einer in zwei Staaten geteilten Nation. Es berichtet von dem erstaunlichen Weg, den die Bundesrepublik Deutschland seit ihrer Gründung genommen hat. Es behandelt aber auch den Weg, den die DDR seit 1949 gegangen ist. […]

Contents
1. Die Entstehung von BRD und DDR.

Fields of Interest
Popular Science in History; History of Germany and Central Europe; German Politics
**Lost Ecstasy**

*Its Decline and Transformation in Religion*

J. McDaniel

- Argues in favor of returning Religious Studies to the exploration of religious experience, especially ecstatic experience
- Written from the perspective of an author who has done fieldwork in non-Western cultures
- Includes ecstasy in a variety of contexts, including religion, sexuality, drugs, music, and violence

This book is a study of religious ecstasy, and the ways that it has been suppressed in both the academic study of religion, and in much of the modern practice of religion. It examines the meanings of the term, how ecstatic experience is understood in a range of religions, and why the importance of religious and mystical ecstasy has declined in the modern West. [..]

**Contents**


Chapter 2: Some Examples of Religious Ecstasy.

Chapter 3: Attacks on Ecstasy, Pathologizing [..]

**Fields of Interest**

Comparative Religion; Spirituality; History of Science; Religion and Psychology

**Series Title**

Interdisciplinary Approaches to the Study of Mysticism

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**Theodor Fontane**

*Realismus, Redevielfalt, Ressentiment*

N. Mecklenburg

- 200. Geburtstag von Theodor Fontane im Jahr 2019
- Die Aktualität Fontanes – Offenheit für zeitgenössische Diskurse
- Mit Studien zum literarischen Antisemitismus Fontanes

Das literarische Werk Theodor Fontanes ist erstaunlich gegenwärtig geblieben. Denn er gestaltete Individuen in gesellschaftlichen Verstrickungen, deren Muster bis heute fortbestehen. Dabei registrierte er, wie die jüngste Forschung zeigt, neue Entwicklungen in Politik, Kultur, Medien, Technik. [..]

**Contents**

Vorwort.

I. Geschichtlichkeit und Gegenwärtigkeit der Werke Theodor Fontanes.

II. Vielstimmigkeit und Bewusstseinskritik. Formen der Dialogizität und Intertextualität.

III. Vom Sagennachklang [..]

**Fields of Interest**

Literary History; Nineteenth-Century Literature; Poetry and Poetics
Global Justice, Human Rights and the Modernization of International Law
R. Pisillo Mazzeschi, P. De Sena (Eds)

- Analyzes modernization of contemporary international law from a human rights and global justice perspective
- Provides a forum to reflect on the issues of human rights and migration from an international law perspective
- Represents a scientific progress and improvement of the legal theory on the modernization of international law

This book is based on the observation that international law is undergoing a process of change and modernization, driven by many factors, among which the affirmation and consolidation of the role of the individual and of the theory of human rights stand out. In the contemporary world, international law has demonstrated an ability to evolve rapidly. [...]

Contents
Part I Global Justice and Changes in the International Community: Emmanuel Decaux, The Impact of Individuals and Other Non-State Actors on Contemporary International Law.- Antonello Tancredi, [...]

Fields of Interest
Sources and Subjects of International Law, International Organizations; Theories of Law, Philosophy of Law, Legal History; Development and Sustainability; International Relations

Flüchtlingsrecht
Die materiellen und verfahrensrechtlichen Grundlagen
P. Tiedemann

- Übersicht zum Stand des materiellen internationalen, europäischen und deutschen Flüchtlingsrechts
- Beschränkung auf das Wesentliche
- Vermittlung praktischer Kompetenzen zur Anwendung des Flüchtlingsrechts

Das Buch vermittelt sowohl die gesetzlichen und rechtsdogmatischen Grundlagen des Flüchtlingsrechts als auch die Geschichte des Asylrechts, ferner stellt es Ansätze für eine philosophische Reflexion des Migrations- und Flüchtlingsrechts unter menschenrechtlichen Aspekten vor. [...]

Contents
Geschichte des Ausländer- und Asylrechts.- Einführung in das allgemeine Ausländerrecht.- Materielles Flüchtlingsrecht.- Von der Solidarität mit Gleichgesinnten zur menschenrechtlichen [...]

Fields of Interest
Administrative Law; European Law; Migration; Human Rights; International Humanitarian Law, Law of Armed Conflict
The Palgrave Handbook of Literary Translation
J. Boase-Beier, L. Fisher, H. Furukawa (Eds)

- The first comprehensive book to offer guidelines for characteristics and requirements of case study research in Literary Translation through in-depth investigations of actual case studies
- Through case studies, chapters address contemporary issues in Literary Translation research such as style and point of view, the author-translator-reader relationship, and translation and national identity

This Handbook offers a comprehensive and engaging overview of contemporary issues in Literary Translation research through in-depth investigations of actual case studies of particular works, authors or translators. Leading researchers from across the globe discuss best practice, problems, and possibilities in the translation of poetry, novels, memoir and theatre. […]

Fields of Interest
Translation; Language and Literature; Translation Studies; Comparative Literature; Stylistics

Series Title
Palgrave Studies in Translating and Interpreting

Linguistik
Eine Einführung (nicht nur) für Germanisten, Romanisten und Anglisten
S. Dipper, R. KlabundeW. Mihatsch (Eds)

- Grundwissen der Sprachwissenschaften für das erste Studienjahr vorlesungsübergreifend und verzahnt in einem Gesamtwerk
- Didaktisch ausgefeilt und durchgängig vierfarbig
- Legt einen starken Fokus auf den Sprachvergleich der wichtigsten europäischen Sprachen

Dieses Buch führt Sie in die Welt der Linguistik ein. Anhand des Deutschen sowie mit Bezug zu den Sprachen Spanisch, Französisch, Italienisch und Englisch lernen Sie, wie in der Linguistik methodisch vorgegangen wird, wie Sprachen lautlich und grammatikal strukturiert sind, sowie welche Bedeutungsphänomene auftreten. […]

Contents

Fields of Interest
Linguistics, general

Digital und vernetzt
Das neue Bild der Sprache
H. Lobin

- Souverän und gut geschriebener Überblick über Sprache im digitalen Zeitalter
- Der Band zeigt die Auswirkungen der Digitalisierung in der Sprachwissenschaft und auch für die Rolle von Sprache in Bildung und Politik.
- Wie Entwicklungen der Sprachwissenschaft in den Alltag eindringen und unsere kommunikative Praxis bestimmen.

Die digitale Verfügbarkeit großer Textmengen und ihre umfassende Vernetzung beeinflussen unseren Umgang mit Sprache und Geschriebenem. Die Möglichkeit, auf riesigen Textwellen zu surfen und endlos viele Texte immer verfügbar zu haben, verändert auch das Bild, das wir uns von Sprache generell machen. […]

Contents
1 Wie sprechen und denken wir über Sprache?.- 2 Ein erstes Bild der Sprache entsteht.- 2.1 Klassische Rhetorik: erst Praxis, dann Theorie und Bildungsideal.- 2.2 Im Kielwasser der Rhetorik: […]

Fields of Interest
Applied Linguistics

June 2018
XXIV, 551 p. 17 illus. Hardcover.
155 x 235 mm
£ 175,50 | € 199,99 | $ 239.00
ISBN 978-3-319-75752-0

All Languages Rights

June 2018
X. 212 S. 100 Abb., 85 Abb. in Farbe. Softcover.
210 x 279 mm
£ 19,99 | € 23,36 | $ 39.99
ISBN 978-3-662-55588-0

All Languages Rights

September 2018
127 x 190 mm
£ 16,01 | € 18,27 | $ 22.99
ISBN 978-3-476-04695-6

All Languages Rights
The Palgrave Handbook of Applied Linguistics Research Methodology
A. Phakiti, P. De Costa, L. Plonsky, S. Starfield (Eds)

- Enables researchers to expand their analytical repertoire by taking on new or enhanced techniques
- Provides a comprehensive and accessible guide to all areas of research methodology in applied linguistics
- Explores a range of research approaches and perspectives including designing and implementing research instruments, techniques and analysing applied linguistics data

This Handbook provides a comprehensive treatment of basic and more advanced research methodologies in applied linguistics and offers a state-of-the-art review of methods particular to various domains within the field. [...] 

Contents

Fields of Interest
Applied Linguistics; Research Methods in Language and Linguistics; Research Methodology; Language Policy and Planning; Multilingualism; Translation

The Idea and Practice of Reading
R. J. Ponniah, S. Venkatesan (Eds)

- Gives exposure to different types of reading strategies to promote reading among language learners
- Provides a unique insight that reading capabilities and strategies of the first language can be transferred to L2

This book addresses basic issues in language education and explores how reading, with a focus on meaning, contributes to the development of all aspects of language including vocabulary, spelling, grammar, and syntax. It departs from traditional methods and practices in language learning to investigate the potency of reading in improving language acquisition. [...] 

Contents

Fields of Interest
Sociolinguistics; Learning and Instruction; Cognitive Psychology

Teacher Development in Technology-Enhanced Language Teaching
J. Son

- Offers a significant contribution to discussions of language teaching and new technologies
- Provides essential information for students, researchers, teacher educators and teachers in Applied Linguistics and TESOL
- Engages with ideas of exploration, communication, collaboration and reflection

This book explores language teacher development in computer-assisted language learning (CALL) environments and discusses approaches, tasks and resources that can guide language teachers to develop their skills and strategies for technology-enhanced language teaching (TELT). [...] 

Contents
Part A: Language Teachers in CALL Environments.- Chapter 1: Technology and Language Teacher Education; Chapter 2: Teachers’ Roles in the CALL Classroom.- Chapter 3: Teachers’ Competencies in [...] 

Fields of Interest
Applied Linguistics; Language Teaching; Educational Technology; Language Education; Technology and Digital Education; English

June 2018
LVI, 824 p. 97 illus., 58 illus. in color. Hardcover. 155 x 235 mm
£ 199.99 | € 229.00 | $ 279.99
ISBN 978-1-137-59899-8

All Languages Rights

June 2018
XIV, 190 p. 1 illus. Hardcover. 155 x 235 mm
£ 79.00 | € 89.99 | $ 99.99
ISBN 978-981-10-8571-0

All Languages Rights

May 2018
XXIII, 233 p. 33 illus. Hardcover. 148 x 210 mm
£ 79.00 | € 89.99 | $ 99.99
ISBN 978-3-319-75710-0

All Languages Rights
Arabic Science Fiction
I. Campbell

- Provides a nuanced and comprehensive study of Arabic science fiction
- Contributes to postcolonial literary studies, genre studies and Arabic literature
- Extends research on global science fiction

This book traces the roots of Arabic science fiction through classical and medieval Arabic literature, undertaking close readings of formative texts of Arabic science fiction via a critical framework developed from the work of Western critics of Western science fiction, Arab critics of Arabic science fiction and postcolonial theorists of literature. […]

Contents
Chapter 1: Introduction.
Chapter 2: Postcolonial Literature and Arabic SF.
Chapter 3: Arabic SF: Definitions and Origins.
Chapter 4: Criticism and Theory of Arabic SF.
Chapter 5: Double […]

Fields of Interest
Contemporary Literature; Middle Eastern Literature; Fiction

Series Title
Studies in Global Science Fiction

Literatures of Madness
Disability Studies and Mental Health
E. J. Donaldson (Ed)

- Contributes to scholarly criticism on twentieth-century women writers
- Expands literary disabilities to the subject of mental health
- Highlights little-known authors and texts

Literatures of Madness: Disability Studies and Mental Health brings together scholars working in disability studies, mad studies, feminist theory, Indigenous studies, postcolonial theory, Jewish literature, queer studies, American studies, trauma studies, and comics to create an intersectional community of scholarship in literary disability studies of mental health. […]

Contents
1. Introduction: Breathing in Airless Spaces, Elizabeth J. Donaldson.
2. Coming Out Mad, Coming Out Disabled, Elizabeth Brewer.
3. Going Barefoot: Mad Affiliation, Identity Politics, and Eros, […]

Fields of Interest
Literary Theory; Disability Studies; Contemporary Literature

Series Title
Literary Disability Studies

Sleep and the Novel
Fictions of Somnolence from Jane Austen to the Present
M. Greaney

- Offers the first full-length study of how the novel engages with human sleep
- Makes a substantial contribution to the emerging field of ‘critical sleep studies’ and to topical debates about the history and cultural significance of slumber
- Introduces an array of concepts – the Schlafroman or ’sleep-novel’; the ‘sociable sleeper’; ‘sleep-watching’; the ‘world-from-a-bed chronotope’; ‘sleep-science fiction’ – with which to describe the novelistic history of sleep

Sleep and the Novel is a study of representations of the sleeping body in fiction from 1800 to the present day which traces the ways in which novelists have engaged with this universal, indispensable -- but seemingly nondescript -- region of human experience. […]

Contents
1. Introduction.
3. “Snoring for the Million”: Dickens the Sleep-watcher.
4. From Bildungsroman to […]

Fields of Interest
Twentieth-Century Literature; Nineteenth-Century Literature; Contemporary Literature; Fiction
Witnessing Torture
Perspectives of Torture Survivors and Human Rights Workers
A. S. Moore, E. Swanson (Eds)

- Bridges the gap between academics, torture survivors, and activists
- Provides often obscure and complex key concepts and searching critique in accessible language and easily digestible bites
- Features contributions from those who have survived torture, by those who work in professions with torture survivors, and by those who work to end torture

This book demonstrates a new, interdisciplinary approach to life writing about torture that situates torture firmly within its socio-political context, as opposed to extending the long line of representations written in the idiom of the proverbial dark chamber. [...] 

Contents
Part I Torture in Context and Translation .-1
Torture: The Catastrophe of a Bond.-2
Torture in an Historical Context: Notes from Sudan.-3 The Unspeakable Agony of Inflicted Pain: Torture..-4 [...] 

Fields of Interest
Contemporary Literature; Postcolonial/ World Literature; Human Rights and Crime; Social Justice, Equality and Human Rights; Human Rights; Terrorism and Political Violence

Series Title
Palgrave Studies in Life Writing

June 2018
148 x 210 mm

£ 22.99 | € 24.99 | $ 29.99
ISBN 978-3-319-74964-8

All Languages Rights
Interventions in Career Design and Education
Transformation for Sustainable Development and Decent Work
V. Cohen-Scali, J. Pouyaud, M. Podgórny, V. Drabik-Podgórna, G. Aisenson, J. L. Bernaud, I. Abdou Moumoula, J. Guichard (Eds)

- Connects the field of Intervention for Life and Career Design (ILCD) to international UNESCO strategies
- Emphasizes the role of ILCD for development of a more decent world and more sustainable society
- Builds on theoretical models as well as empirical research incomes and case studies to enlighten the role of ILCD

This book is the product of a series of reflections by career counseling and guidance specialists on a question central to society: “How can career and life design interventions contribute to fair and sustainable development and to the implementation of decent work all over the world?”. [...

Fields of Interest
Professional and Vocational Education; Lifelong Learning/Adult Education; Career Skills

Series Title
Lifelong Learning Book Series

Digital Childhoods
Technologies and Children’s Everyday Lives
S. J. Danby, M. Fleer, C. Davidson, M. Hatzigianni (Eds)

- Conceptualises how childhood is being constructed in the digital era
- Provides case studies on the ways that young children are currently experiencing their digital childhoods
  This book highlights the multiple ways that digital technologies are being used in everyday contexts at home and school, in communities, and across diverse activities, from play to web searching, to talking to family members who are far away. The book helps readers understand the diverse practices employed as children make connections with digital technologies in their everyday experiences. [...

Contents
Introduction.- 1 Digital childhoods across contexts and countries.- Section 1 Social affordances across time and space in digital contexts.- 2 How families use of video communication technologies [...] 

Fields of Interest
Early Childhood Education; Educational Technology; Technology and Digital Education

Series Title
International Perspectives on Early Childhood Education and Development

International Students in China
Education, Student Life and Intercultural Encounters
F. Dervin, X. Du, A. Härkönen (Eds)

- Focuses on the often neglected topic of international students studying in China
- Provides a comprehensive overview of the latest in interculturality and study abroad
- Examines student experiences through a range of lenses
  As the number of international students in Chinese higher education increases steadily, this volume is one of the first to focus on their many and varied experiences. [...] 

Contents
Chapter 1. International Students in China - A Dream Come True?; Fred Dervin, Anu Härkönen and Xiangyun Du.- Chapter 2. An Analysis of Factors Influencing International Students’ Choice of [...] 

Fields of Interest
Sociology of Education; Sociology of Education; International and Comparative Education; Studying abroad

Series Title
Palgrave Studies on Chinese Education in a Global Perspective

September 2018
VII, 374 p. 7 illus., 5 illus. in color. Hardcover.
155 x 235 mm
£ 109.99 | € 119.99 | $ 149.99
ISBN 978-3-319-91967-6

All Languages Rights

May 2018
XII, 287 p. 39 illus. Hardcover.
155 x 235 mm
£ 79.00 | € 89.99 | $ 99.99
ISBN 978-981-10-6483-8

All Languages Rights

July 2018
XIII, 260 p. 6 illus. Hardcover.
148 x 210 mm
£ 109.99 | € 119.99 | $ 149.99
ISBN 978-3-319-78119-8

All Languages Rights
Early Engineering Learning
L. English, T. Moore (Eds)

- The first book in the underrepresented field of early engineering education
- Explores why engineering experiences are important in young children's overall development and how engineering is a core component of early STEM learning
- Relevant to engineering education as well as to early mathematics and science learning, and early childhood learning in general

This book addresses engineering learning in early childhood, spanning ages 3 to 8 years.

Contents
Introduction.- Chapter 1 Early Engineering: An introduction to young children’s potential.- Section 1 Engineering Thinking and Habits of Mind.- Chapter 2 Engineering in the early grades: […]

Fields of Interest
Early Childhood Education; Engineering/Technology Education; Mathematics Education; Science Education

Series Title
Early Mathematics Learning and Development

Teacher Learning with Classroom Assessment
Perspectives from Asia Pacific
H. Jiang, M. F. Hill (Eds)

- Reveals teachers' classroom assessment strategies initiated in and designed for their own classroom instruction
- Offers insights into how teachers practice and learn from classroom assessment in different educational contexts
- Compares and contrasts how the global discourse on assessment for learning is assimilated within teachers' practices in ways that fit (and may not fit) different cultural and policy contexts

This book discusses the interwoven themes of teacher learning and classroom assessment, highlighting the complexity and intricacy of these processes in a range of very different classroom contexts. The case studies demonstrate how classroom assessment is needed for teachers to learn about teaching and for them to be able to grow professionally and improve student learning.

Contents
Introduction, Thomas Lachmann.- Part I: Literacy Acquisition and Skilled Reading in Different Orthographies.- The Methods Issue Revisited: From a Developmental and a Socio-Cultural-Political […]

Fields of Interest
Language Education; Cognitive Linguistics; Cognitive Psychology; Psycholinguistics

Series Title
Literacy Studies

June 2018
VIII, 287 p. 63 illus., 54 illus. in color. Hardcover.
155 x 235 mm
£ 96.50 | € 109.99 | $ 119.00

All Languages Rights

May 2018
XVI, 201 p. 9 illus. Hardcover.
155 x 235 mm
£ 79.00 | € 89.99 | $ 99.99

All Languages Rights

July 2018
XV, 333 p. 41 illus., 7 illus. in color. Hardcover.
155 x 235 mm
£ 109.99 | € 119.99 | $ 149.99
ISBN 978-3-319-90804-5

All Languages Rights

Reading and Dyslexia
From Basic Functions to Higher Order Cognition
T. Lachmann, T. Weis (Eds)

- Includes contributions from pioneers and leading researchers in the field
- Covers theories on reading and dyslexia as well as remediation approaches
- Follows approaches from basic perception to higher order functions

In this volume a group of well-known experts of the field cover topics ranging from basic visual and auditory information processing to higher order cognition in reading and dyslexia, from basic research to remediation approaches and from well-established theories to new hypotheses about reading acquisition and causes for its failure.

Contents
Introduction, Thomas Lachmann.- Part I: Literacy Acquisition and Skilled Reading in Different Orthographies.- The Methods Issue Revisited: From a Developmental and a Socio-Cultural-Political […]

Fields of Interest
Language Education; Cognitive Linguistics; Cognitive Psychology; Psycholinguistics

Series Title
Literacy Studies
Reading Achievement and Motivation in Boys and Girls
Field Studies and Methodological Approaches
P. Orellana García, P. Baldwin Lind (Eds)
• Includes contributions from international leading researchers in the field
• Illustrates reading motivation studies from a multidimensional perspective addressing variables such as cognitive, emotional and educational issues
• Includes figures and tables that clearly illustrate boys’ and girls’ behaviour regarding reading motivation
This volume links theoretical and instructional approaches on how reading is motivated and assessed, and examines the interrelationship between reading motivation and achievement among boys and girls in culturally and geographically different settings. […]

Contents

PART I: THEORETICAL APPROACHES: CURRENT ISSUES ON BOYS’ AND GIRLS’ READING ACHIEVEMENT AND […]

Fields of Interest
Language Education; Psycholinguistics; Early Childhood Education; Literacy

Series Title
Literacy Studies

Exporting Transnational Education
Institutional Practice, Policy and National Goals
V. Tsigiridis, W. Lawton (Eds)
• Explores the growing trend for transnational education within tertiary learning
• Questions why transnational learning is beneficial and how it can be further encouraged
• Suggests solutions for how research and practice can become more closely linked for stronger learning in the future
This book focuses on the dynamic and rapidly expanding field of transnational higher education (TNE). Despite the increasing importance of TNE and the interest it has attracted from various stakeholders, there is a lack of theoretical and empirical evidence on several aspects pertaining to its operation and governance. […]

Contents
Chapter 1. TNE 2.0: Informing Practice Through Research; Vangelis Tsigiridis and William Lawton.

PART I. Models and Strategic Considerations.
Chapter 2. Exploring Germany’s Contribution to […]

Fields of Interest
International and Comparative Education; Administration, Organization and Leadership; Higher Education; Studying abroad

Resilience in Education
Concepts, Contexts and Connections
M. Wosnitza, F. Peixoto, S. Beltman, C. F. Mansfield (Eds)
• Gives a concise overview on state of current research on resilience in education
• Combines theoretical examinations, research results and interventions
• Includes educational and psychological perspectives
This volume focuses on resilience in educational contexts which has emerged as an important field of research, with recent investigation into resilience of school students teachers, and post-secondary students and staff. The book integrates theoretically diverse viewpoints and research advancing relevant theory. […]

Contents
Section I: Introduction.
Chapter 1 Resilience in Education: An Introduction, Susan Beltman & Caroline F. Mansfield.
Section II: Conceptualising Resilience.
Chapter 2 (Re)conceptualizing Teacher […]

Fields of Interest
Educational Psychology; Teaching and Teacher Education; Professional and Vocational Education; Lifelong Learning/Adult Education
Spline and Spline Wavelet Methods with Applications to Signal and Image Processing
Volume III: Selected Topics
A. Z. Averbuch, P. Neittaanmäki, V. A. Zheludev

- Covers important practical applications for signal/image processing
- Provides state-of-the-art mathematical tools
- Presents various methods and Matlab codes, supported by accompanying software

This book provides a practical guide, complete with accompanying Matlab software, to many different types of polynomial and discrete splines and spline-based wavelets, multiwavelets and wavelet frames in signal and image processing applications.[...]

Contents
Chapter 1. Introduction: Periodic Signals and Filters.
Chapter 2. Periodic Polynomial Splines.
Chapter 3. Periodic Discrete and Discrete-time Splines.
Chapter 4. Periodic Orthogonal Wavelets [...]

Fields of Interest
Signal, Image and Speech Processing; Computer Imaging, Vision, Pattern Recognition and Graphics; Engineering Design; Algorithms

July 2018
XXIV, 287 p. 131 illus., 91 illus. in color. With online files/update. Hardcover. 155 x 235 mm
£ 129,99 | € 149,99 | $ 179.99
ISBN 978-3-319-92122-8

All Languages Rights

Computational Geomechanics and Hydraulic Structures
S. Chen

- Provides a comprehensive, detailed, and up-to-date overview of computational geomechanics and hydraulic structures
- Addresses key issues with regard to basic principles; modern analysis tools, parameters and criteria; engineering countermeasures; and safety calibrations

This book presents recent research into developing and applying computational tools to estimate the performance and safety of hydraulic structures from the planning and construction stage to the service period. [...]

Contents

Fields of Interest
Geoengineering, Foundations, Hydraulics; Computational Science and Engineering; Structural Mechanics

Series Title
Springer Tracts in Civil Engineering

July 2018
XXIX, 890 p. 553 illus. Hardcover. 155 x 235 mm
£ 199,99 | € 219,99 | $ 279.99
ISBN 978-981-10-8134-7

All Languages Rights

Computational Modelling of Bifurcations and Instabilities in Fluid Dynamics

A. Gelfgat (Ed)

- Presents the first collection of modern approaches to 3D fluid dynamics stability problems
- Provides descriptions of the challenging problems being solved nowadays
- Relevant to a wide spectrum of disciplines

Instabilities of fluid flows and the associated transitions between different possible flow states provide a fascinating set of problems that have attracted researchers for over a hundred years. [...]

Contents
Preface.- Part 1: Novel methods and approaches.- Order-of-magnitude speedup for steady states and traveling waves via Stokes preconditioning in Channelflow and Openpipeflow, by L. S. Tuckerman, [...]

Fields of Interest
Engineering Fluid Dynamics; Mechanical Engineering; Fluid- and Aerodynamics; Computational Mathematics and Numerical Analysis; Mathematical Applications in the Physical Sciences

Series Title
Computational Methods in Applied Sciences

July 2018
VIII, 527 p. 204 illus. Hardcover. 155 x 235 mm
£ 149,99 | € 169,99 | $ 219.99
ISBN 978-3-319-91493-0

All Languages Rights
Dubbel
Taschenbuch für den Maschinenbau
K. Grote, B. Bender, D. Göhlich (Eds)

- DAS unverzichtbare Nachschlagewerk für Studium und Beruf
- Umfasst den gesamten Maschinenbau und seine Randgebiete
- Neu in der 25. Auflage: Toleranzmanagement


Contents
Mathematik.- Mechanik.- Festigkeitslehre.- Thermodynamik.- Werkstofftechnik.- Konstruktionstechnik.- Maschinenelemente.- Fluidische Antriebe.- Mechatronische Systeme.- Thermischer Apparatebau.- […]

Fields of Interest
Engineering Design; Machinery and Machine Elements; Manufacturing, Machines, Tools; Automotive Engineering

September 2018
LIII, 2111 S. 3825 Abb., 3000 Abb. in Farbe. Book + eBook. Hardcover. 170 x 242 mm
£ 69,99 | € 82,26 | $ 99,99

All Languages Rights

Frick/Knöll
Baukonstruktionslehre 2
U. Hestermann, L. Rongen

- Das eingeführte Nachschlagewerk zur Baukonstruktion auf dem neuesten Stand
- Studierende und Praktiker erhalten einen umfassenden Einblick in den Roh- und Innenausbau, von den Grundlagen bis zu den Details
- Mehr als eine halbe Million verkauft Exemplare


Contents
Konstruieren unter dem Blickwinkel der Nachhaltigkeit.- Geneigte Dächer.- Flachdächer.- Abgasanlagen (Schornsteine, Kamine) und Lüftungsschächte.- Treppen, Rampen und Aufzüge.- Fenster - […]

Fields of Interest
Building Construction and Design; Basics of Construction

October 2018
Etwa 800 S. Hardcover. 168 x 240 mm
£ 44,99 | € 51,39 | $ 64,99
ISBN 978-3-658-21912-3

All Languages Rights

Petersen Stahlbau
Grundlagen der Berechnung und baulichen Ausbildung von Stahlbauten

- Einzigartiges Standardwerk für den Stahlbau
- Neues Kapitel zum Brandschutz im Stahlbau
- Neues, renommiertes Autorenteam

Theorie und Konstruktion der wichtigsten Bereiche der Stahlbautechnik werden von den Grundlagen bis zu den Details der modernen Bauweisen und neuen Materialien. Das Buch ist aus Vorlesungen im Grund- und Vertiefungssstudium des Bauingenieurwesens entstanden. Der Inhalt wird zum Teil systematisch, zum Teil exemplarisch dargestellt. […]

Contents
Werkstoff Stahl/Werkstoffeigenschaften/-Werkstoffprüfung.- Elasto-statischer Festigkeitsnachweis.- Elasto-statische Berechnung der Stabtragwerke.- Plasto-statische Berechnung der Stabtragwerke.- […]

Fields of Interest
Light Construction, Steel Construction, Timber Construction

May 2019
Etwa 1500 S. Book + eBook. Hardcover. 168 x 240 mm
£ 120,50 | € 137,10 | $ 169.00
ISBN 978-3-658-20509-6

All Languages Rights
Brandschutzfibel
A. Merschbacher

- Fundierter Überblick über wirkungsvolle und sinnvolle Sicherungsmaßnahmen
- Sicherungsmaßnahmen im privaten und gewerblichen Umfeld
- Bezug auf die maßgeblichen Regelwerke


Contents
Die Entstehung des Feuers.- Baulicher Brandschutz.- Wärmedämm-Verbundsysteme mit EPS.- Wer ist verantwortlich?- Der Brandschutzbeauftragte.- Der Heizraum.- Die Feuerbeschau.- Rauchwarnmelder.- [...] 

Fields of Interest
Fire Science, Hazard Control, Building Safety; Environmental Health; Waste Management/Waste Technology; Ecotoxicology

Planetary Spacecraft Navigation
J. Miller

- Offers an in-depth look into the resources and technologies used at the Jet Propulsion Laboratories, including the Deep Space Network
- Explains the mathematical reasoning behind navigation computer programs
- Examines the success and failure of real-world navigation theory application in previous space missions

This textbook introduces the theories and practical procedures used in planetary spacecraft navigation. Written by a former member of NASA’s Jet Propulsion Laboratory (JPL) navigation team, it delves into the mathematics behind modern digital navigation programs, as well as the numerous technological resources used by JPL as a key player in the field. [...] 

Fields of Interest
Aerospace Technology and Astronautics; Space Sciences (including Extraterrestrial Physics, Space Exploration and Astronautics); Software Engineering/Programming and Operating Systems; Mathematical Applications in Computer Science

Series Title
Space Technology Library

Baumentwurfslehre
Grundlagen, Normen, Vorschriften
E. Neufert

- Die umfangreichste Zusammenstellung von Gebäudetypologien, Schemata, Maßen und Abmessungen für den Gebäudeentwurf in einem Band
- Verlässliche Fakten für den Einstieg in jedes neue Entwurfsprojekt
- Mit Online Material: 15 Videos renommiert Architekten zu wichtigen Entwurfsthemen mit der ExploreBooks App abrufbar

Übersichtliche Funktions-Schemata und Typologien für alle Gebäudearten und Baulichen Anlagen, Maße und Abmessungen für Räume, Einrichtungen und Geräte können im “Neufert” verlässlich nachgeschlagen werden und bieten dem Planenden einen schnellen Überblick und sicheren Einstieg in alle Entwurfsthemen. [...] 

Contents

Fields of Interest
Civil Engineering; Building Types and Functions

October 2018
VI, 544 S. Hardcover.
168 x 240 mm
£ 79,99 | € 93,45 | $ 119.99
ISBN 978-3-658-21138-7

All Languages Rights

Springer Vieweg
Professional/practitioner

August 2018
XII, 390 p. 121 illus., 27 illus. in color. Hardcover.
155 x 235 mm
£ 79,99 | € 89,99 | $ 109.99
ISBN 978-3-319-78915-6

All Languages Rights

Springer Vieweg
Professional/practitioner

October 2018
605 S. Hardcover.
205 x 295 mm
£ 127,00 | € 144,85 | $ 179.00
ISBN 978-3-658-21876-8

All Languages Rights

Springer Vieweg
Professional/practitioner
Mathematik für Ingenieure und Naturwissenschaftler
Band 1
Ein Lehr- und Arbeitsbuch für das Grundstudium
L. Papula

- Vollständige Lösungen zu den Aufgaben sichern den Lernerfolg
- Mit Papula sicher durch die Klausur Math I
- Standardwerk der Ingenieurmathematik


Contents
Allgemeine Grundlagen.- Vektoralgebra.- Funktionen und Kurven.- Differentialrechnung.- Integralrechnung.- Potenzreihenentwicklungen.- Komplexe Zahlen und Funktionen.- Übungsaufgaben am Kapitelende [...] 

Fields of Interest
Mathematical and Computational Engineering; Electrical Engineering; Applications of Mathematics

Maschinenbau
Ein Lehrbuch für das ganze Bachelor-Studium
W. Skolaut (Ed)

- Alle Grundlagenfächer in einem Band
- Durchgängiges Leitbeispiel
- Rechenaufgaben und Kurzlösungen in jedem Kapitel „Alles aus einer Hand“. Dieses vierfarbige Lehrbuch bietet in einem Band ein lebendiges Bild des gesamten Maschinenbaus. Studierende finden das im Bachelor-Studium behandelte Wissen ausführlich und anhand vieler Beispiele erklärt. Im Mittelpunkt steht das Verständnis der Zusammenhänge zwischen den Fachgebieten. [...] 

Contents

Fields of Interest
Mechanical Engineering; Engineering Design; Industrial and Production Engineering; Machinery and Machine Elements; Electrical Engineering; Materials Engineering

Cell Mapping Methods
Algorithmic Approaches and Applications
J. Sun, F. Xiong, O. Schütze, C. Hernández

- Presents algorithmic studies of the popular cell-mapping method with computer programs
- Explains different cell-mapping-method algorithms for a wide range of applications
- Includes a complete set of Matlab and C++ codes for implementing the algorithms

This book presents the latest algorithmic developments in the cell-mapping method for the global analysis of nonlinear dynamic systems, global solutions for multi-objective optimization problems, and global solutions for zeros of complex algebraic equations. [...] 

Contents

Fields of Interest
Mathematical and Computational Engineering; Mathematical Methods in Physics; Applications of Mathematics
Keine Panik vor Elektrotechnik!

Erfolg und Spaß mit den Widerständen im Ingenieurstudium

K. Tieste, O. Romberg

- Unkonventionellen, lockeren und spannenden Zugang zur Elektrotechnik
- Geschickt mit Erläuterungen, vielen Beispielen aus dem Leben und Cartoons
- Bietet als Studienhelfer einen effektiven Einstieg

Mit Strom geht fast alles; ohne Strom geht fast nichts! Die meisten Innovationen des täglichen Lebens vom Toaster bis zur LED-Beleuchtung, vom Röhrenradio bis zum Smartphone, vom VW-Käfer bis zum Elektroauto kommen aus dem Bereich der Elektrotechnik. In der Schule kamen wir im Physikunterricht in Kontakt mit dem Ohmschen Gesetz, das wir uns mit der Eselsbrücke des Kantons URI gemerkt haben. […]

Contents
1 Eine stromlinienförmige Einführung.-2 Gleichstrom.- 3 Berechnung von Gleichstromnetzwerken.- 4 Wechselstrom.- 5 Berechnung von Wechselstromnetzwerken.- 6 Black-Box: Der Vierpol und das Zweitor.- […]

Fields of Interest
Electrical Engineering

Werkstoffe und ihre Anwendungen

Metalle, Kunststoffe und mehr

W. Weißbach, M. Dahms, C. Jaroschek

- Werkstoffe und ihre Anwendung verständlich gemacht
- Praxisnahe Erklärungen und aktuelle Normen
- Passend für den Unterricht an Fachschule und Hochschule „Der Weißbach“ ist mittlerweile zum Standardwerk der Werkstoffkunde geworden. Die anwendungsnahe Darstellung ist passgenau für den Einsatz an Fachschulen und Fachhochschulen konzipiert. […]

Contents
Metallische Werkstoffe.- Die Legierung Eisen-Kohlenstoff.- Stahlsorten, Normen und Verwendungsgruppen.- Stoffeigenschaft ändern.- Eisen-Gusswerkstoffe.- Nichteisenmetalle.- […]

Fields of Interest
Materials Engineering; Characterization and Evaluation of Materials; Mechanical Engineering

June 2018
X, 304 S. 260 Abb., 15 Abb. in Farbe. Softcover. 168 x 240 mm

All Languages Rights except English

July 2018
XIX, 601 S. 393 Abb. Softcover. 168 x 240 mm

All Languages Rights
Fifty Materials That Make the World
I. Baker

- Provides a concise introduction to various materials with broad day-to-day applications
- Describes how the uses of certain materials were discovered and their importance in today's world
- Examines how advances in materials underlie and enable advances in technology

This book introduces materials and how advances in materials result in advances in technology and our daily lives. Each chapter covers a particular material, how the material was discovered or invented, when it was first used, how this material has impacted the world, what makes the material important, how it is used today, and future applications. […]

Contents

Fields of Interest
Characterization and Evaluation of Materials; Nanotechnology and Microengineering; Popular Science in Chemistry and Materials; Ceramics, Glass, Composites, Natural Materials

Advances in Functional Micro-/Nanoimaging Probes
Z. Liu (Ed)

- Discusses new technologies for transdisciplinary research involving functional materials and biomedical imaging
- Presents the fundamentals of and cutting-edge advances in micro/nano imaging probes
- Clearly structured and includes a wealth of detailed illustrations

This book highlights the latest advances in functional micro/nano imaging probes and their applications for biomedical imaging and therapy. […]

Contents
Micro/nano materials for imaging technology.- Fundamentals of micro/nano imaging probes.- Biomedical applications of functional micro/nano imaging probes.- Translational clinical applications of […]

Fields of Interest
Nanotechnology; Imaging / Radiology; Molecular Medicine; Nanochemistry; Biomedical Engineering

Series Title
Engineering Materials
Physikalische Rezepte: Mechanik
Schritt für Schritt durch 27 klassische Aufgaben
C. Albert, K. Lichtenegger

- Verdeutlicht schrittweise die Herangehensweise für Problemstellungen in der theoretischen Mechanik
- Hilft durch klare Struktur und Konzentration aufs Wesentliche
- Deckt klassische Aufgaben zur theoretischen Mechanik ab

"Was muss ich eigentlich tun?" Diese Frage kommt schnell auf, wenn man mit einer Aufgabe aus der theoretischen Physik konfrontiert wird. In den physikalischen Rezepten stellen die Autoren anhand von im Detail durchgerechneten Beispielen die wesentlichen Aspekte und Vorgehensweisen beim Lösen klassischer Problemstellungen ins Rampenlicht.

Contents
Vorwort.- 1 Grundzutaten und Basisrezepte.- 2 Newtonsche Mechanik.- 3 Lagrange-Formalismus.- 4 Integration und Erhaltungsgrößen.- 5 Kleine Schwingungen.- 6 Starrer Körper.- 7 [...]
Multiplex Networks
Basic Formalism and Structural Properties
E. Cozzo, G. F. de Arruda, F. A. Rodrigues, Y. Moreno

- Contains the basis of a complete formal language to treat multiplex networks
- Contains the generalization of standard monoplex network to multiplex networks
- Provides a standard procedure to develop well-established structural metrics

This book provides the basis of a formal language and explores its possibilities in the characterization of multiplex networks. Armed with the formalism developed, the authors define structural metrics for multiplex networks. [...]

Contents

Fields of Interest
Applications of Graph Theory and Complex Networks; Graph Theory; Big Data/Analytics

Series Title
SpringerBriefs in Complexity

Galileo Galilei
At the Threshold of the Scientific Age
W. W. Osterhage

- Describes Galileo's work in the light of prevailing world views
- Details Galileo's enduring influence on modern science
- Explores the threshold between medieval and modern thinking

This new scientific biography explores the influences on, and of, Galileo's exceptional work, thereby revealing novel connections with the worldviews of his age and beyond. Galileo Galilei's contribution to science is unquestionable. And his conflict with the church establishment of his time is no less famous. [...] 

Contents
Introduction.- Time and Space.- Early Years (1564-1588).- Padova.- Florence.- Cosmological Excursion.- Florence revisited.- Final Years.- Conclusions.

Fields of Interest
History and Philosophical Foundations of Physics; Astronomy, Astrophysics and Cosmology; European History; Philosophy of Science; History of Science

Series Title
Springer Biographies

Cosmology for the Curious
D. Perlov, A. Vilenkin

- The big questions of cosmology made simple - for students and the educated layman alike
- Accessible, informative and entertaining, with a gripping style and delightful cartoons
- Ideal for a first course in cosmology, also for non-science majors and high-school pupils

This book is a gentle introduction for all those wishing to learn about modern views of the cosmos. Our universe originated in a great explosion – the big bang. For nearly a century cosmologists have studied the aftermath of this explosion: how the universe expanded and cooled down, and how galaxies were gradually assembled by gravity. [...] 

Contents
Part I The Big Bang and the Observable Universe: A historical overview.- Newton's universe.- Special relativity.- The fabric of space and time.- An expanding universe.- Observational cosmology.- [...]

Fields of Interest
Cosmology; Classical and Quantum Gravitation, Relativity Theory; Particle and Nuclear Physics; History and Philosophical Foundations of Physics; Philosophy of Religion
Elektrizität und Magnetismus
Experimentalphysik – anschaulich erklärt
A. Stahl, S. Roth

- Begeistert durch moderne, reich bebilderte und ansprechende Aufmachung Erleichtert das Auffinden von Inhalten durch klare farbige Strukturierung
- Bietet zeitgemäßen Zugang zur Elektrodynamik

Dieses lebendig gestaltete Lehrbuch lädt Studierende der Physik und der Nachbardisziplinen dazu ein, die Experimentalphysik zu erlernen: Anhand vieler Experimente, einer reichen Bebilderung, moderner Aufgaben und anschaulicher Beispiele führt das Buch durch den Stoff der Bachelorvortrags. […]

Contents
Vorwort.- Elektrische Ladung.- Kraft und Feld.- Multipole.- Elektrostatische Energie und Kapazität.- Materie in elektrischen Feldern.- Ströme.- Das magnetische Feld.- Magnetische Kräfte.- […]

Fields of Interest
Classical Electrodynamics

July 2018
VIII, 400 S. 770 Abb. Softcover.
168 x 240 mm
£ 33,99 | € 37,37 | $ 59.99
ISBN 978-3-662-54444-0

All Languages Rights
Smart Futures, Challenges of Urbanisation, and Social Sustainability
M. Dastbaz, W. Naudé, J. Manoochehri (Eds)

- Covers Social Sustainability, a rarely discussed and yet vital aspect of sustainable development
- Examines how urbanization has intensified sustainability problems, and offers technologically-driven solutions to mitigate the damage wrought to the environment, and our well-being
- Focuses on Smart Cities, melding engineering aspects, such as planning and construction, with human aspects, such as education and health-care

This book tackles the challenges posed by accelerating urbanization, and demystifies Social Sustainability, the least understood of all the different areas of sustainable development. The volume’s twin focus on these profoundly intertwined topics creates a nuanced and vitally important resource.

Contents
Part I. Urbanisations and Social Sustainability.- Chapter 1. Introduction: Paris Climate Agenda and Serious Challenges to our Sustainable Development.- Chapter 2. Urban Planning and City Futures: [...]}

Making Healthcare Green
The Role of Cloud, Green IT, and Data Science to Reduce Healthcare Costs and Combat Climate Change
N. S. Godbole, J. P. Lamb

- Provides solutions for improving energy efficiency in the healthcare sector
- Demonstrates methods for estimating energy usage of various solutions
- Includes a comprehensive up-to-date reference section for those seeking further knowledge within the fields

This book offers examples of how data science, big data, analytics, and cloud technology can be used in healthcare to significantly improve a hospital's IT Energy Efficiency along with information on the best ways to improve energy efficiency for healthcare in a cost effective manner. [...]}

Contents

Energy Sector: A Systemic Analysis of Economy, Foreign Trade and Legal Regulations
O. V. Inshakov, A. O. Inshakova, E. G. Popkova (Eds)

- Presents a comprehensive economic and legal study of theoretical and practical aspects of the energy sector
- Substantiates the key role of technological energy efficiency in the reduction of energy capacity
- Demonstrates how energy efficiency also increases economic effectiveness

This book is a comprehensive economic and legal study of the theoretical and practical aspects of the problems of increasing energy efficiency; self-motivation of energy saving by business entities within the framework of their corporate responsibility; regulatory mechanisms to stimulate energy conservation in the economy; civil-law regulation of foreign trade turnover of energy resources between [...]}

Fields of Interest
Energy Policy, Economics and Management; Natural Resource and Energy Economics; Computational Intelligence

Series Title
Lecture Notes in Networks and Systems
Using Energy Crops for Biofuels or Food: The Choice
A. Paschalidou, M. Tsatiris, K. Kitikidou, C. Papadopoulou

- Provides a detailed SWOT (strengths, weaknesses, opportunities and threats) analysis on the use of crops for food or biofuels
- Analyses how energy crops may help solve humankind’s environmental changes

This book performs a SWOT (strengths, weaknesses, opportunities and threats) analysis to examine the current food crisis and how it relates to the use of crops for energy. It analyses how energy crops may help solve humankind’s environmental changes and summarises the economic and practical changes of cultivating and utilising energy crops. […]

Contents

Fields of Interest
Renewable and Green Energy; Natural Resource and Energy Economics; Climate Change Management and Policy; Natural Resources; Agricultural Economics; Biodiversity

Series Title
Green Energy and Technology

Energy Internet and We-Energy
Q. Sun

- Introduces a novel concept for solving the problem of energy supply and utilization
- Presents a novel energy interaction mode based on a cyber-physical-economy-energy model
- Analyzes the key devices and technologies for developing the Energy Internet

This book focuses on the framework and implementation of energy integration systems with energy and smart-control technologies. It describes in detail We-Energy, a novel energy interaction mode based on a cyber-physical-economy-energy model, which can be adopted to solve the problem of energy supply and utilization. […]

Contents
Introduction to Energy Internet.- Cyber-physical Energy Internet.- We-Energy Modelling.- Coordinated Power Management Control Strategy for Interconnected AC and DC Microgrids.- Distributed […]

Fields of Interest
Energy Systems; Power Electronics, Electrical Machines and Networks; Control

Series Title
Renewable Energy Sources & Energy Storage

Hydrogen Energy
Challenges and Solutions for a Cleaner Future
B. Zohuri

- Presents cutting-edge research in hydrogen energy development;
- Contains case studies and examples to enhance practical application of the technologies presented;
- Presents innovative and unique solutions to integrating hydrogen into renewable sources

This book describes the challenges and solutions the energy sector faces by shifting towards a hydrogen based fuel economy. The most current and up-to-date efforts of countries and leaders in the automotive sector are reviewed as they strive to develop technology and find solutions to production, storage, and distribution challenges. […]

Contents

Fields of Interest
Renewable and Green Energy; Transportation; Energy Efficiency

June 2018
XX, 105 p. 62 illus., 57 illus. in color. Hardcover. 155 x 235 mm
£ 99.99 | € 109.99 | $ 139.99
ISBN 978-3-319-63942-0

All Languages Rights

July 2018
XIV, 325 p. 135 illus., 92 illus. in color. Hardcover. 155 x 235 mm
£ 131.50 | € 149.99 | $ 189.00

All Languages Rights

August 2018
XVIII, 283 p. 156 illus., 120 illus. in color. Hardcover. 155 x 235 mm
£ 109.99 | € 119.99 | $ 149.99
ISBN 978-3-319-93460-0

All Languages Rights
Particles in the Air: The Deadliest Pollutant is One You Breathe Every Day

D. Brugge

- Illustrates real-life case examples involving particulate matter air pollution and its health impacts
- Details the dangers and potential sources of toxins affecting everyday life that are seldom talked about
- Aims the subject matter at a popular audience to convey the overarching issues caused by dangerous air toxins

The book covers the three largest sources of particulate matter pollution in five chapters. These sources constitute three of the top ten public health problems in the world today and far outstrip any other environmental health threats in terms of health impact. [...]

Contents

Fields of Interest
Popular Science in Nature and Environment; Atmospheric Protection/Air Quality Control/Air Pollution; Public Health; Industrial Pollution Prevention; Health Economics; Environmental and Sustainability Education

June 2018
XV, 85 p. 29 illus., 25 illus. in color.
Softcover.
155 x 235 mm
£ 16.50 | € 29.99 | $ 29.99
ISBN 978-3-319-89586-4

All Languages Rights
Environmental Nanotechnology

Volume 1

N. Dasgupta, S. Ranjan, E. Lichtfouse (Eds)

- Features environmental benefits of nanomaterials in agriculture, water purification and nanomedicine
- Looks at photovoltaics and the future of alternative energy
- Includes topics such as nanotechnology prospects and constraints in agriculture, nano-food technology and nutrition, and more

This book presents the environmental benefits of nanomaterials in agriculture, water purification and nanomedicine. Nanotechnology will modify the environment both in a positive and negative way. On the one hand, new nanomaterials are promising for reducing greenhouse gases, cleaning toxic wastes and building alternative energy sources. [...] 

Contents
1. An Introduction to Nanomaterials.
3. Nanoparticles For Heavy Metal Removal From Drinking Water.
4. Nanobiosensors For Detection of Micropollutants.
5. [...] 

Fields of Interest
Environmental Chemistry; Nanotechnology; Food Science 

Series Title
Environmental Chemistry for a Sustainable World 

May 2018
XVIII, 392 p. 104 illus., 78 illus. in color. Hardcover. 155 x 235 mm
£ 109.99 | € 129.99 | $ 159.99
ISBN 978-3-319-76089-6

All Languages Rights 

Towards Zero Waste

Circular Economy Boost, Waste to Resources

M. Franco-García, J. C. Carpio-Aguilar, H. Bressers (Eds)

- Provides practical examples of circular economy implementation adopted and adapted to their contextual situation
- Describes challenges from the practitioners’ perspective enriching the literature on this field
- Presents different theoretical frameworks

This book draws on insights that originated from the Circular Economy and Zero Waste initiatives. Together these approaches try to boost the shift from “waste” to “resources” management. The content of this book is partially organized from a stakeholder perspective, revealing the managerial implications for public and private actors. [...] 

Fields of Interest
Environmental Management; Waste Management/Waste Technology; Sustainability Management; Supply Chain Management; Natural Resources

Series Title
Greening of Industry Networks Studies

August 2018
XIV, 275 p. 49 illus., 13 illus. in color. Hardcover. 155 x 235 mm
£ 109.99 | € 129.99 | $ 159.99
ISBN 978-3-319-92930-9

All Languages Rights
The Shape and Size of the Earth
A Historical Journey from Homer to Artificial Satellites
D. Boccaletti

- Provides a complete historical account of how the figure of the Earth has been measured, calculated and established ever more accurately
- Offers a thorough treatment of disputes on the shape of the Earth in the Middle Ages
- Explores the role of mathematics in the geodetic enterprises of the eighteenth century

This book describes in detail the various theories on the shape of the Earth from classical antiquity to the present day and examines how measurements of its form and dimensions have evolved throughout this period. […]

Contents
1 The Graeco-Roman World.- 2 The Roman world from the end of the republic to the end of the empire.- 3 The Middle Ages.- 4 From the age of the great transoceanic discoveries to the new […]

Fields of Interest
Geophysics/Geodesy; History and Philosophical Foundations of Physics; History of Science; Mathematics of Planet Earth; History of Mathematical Sciences; Philosophy of Science

Reducing Lightning Injuries Worldwide
M. A. Cooper, R. L. Holle

- Single resource on lightning fatalities and injuries currently widely dispersed across many disciplines
- Shows how it is possible to reduce the large loss of life and productivity from lightning in the developing world
- Combines recent knowledge of lightning, lightning detection, warning and safety into a single resource

This book is a resource for understanding why Lightning continues to be a major health hazard, especially in the developing world, and equips researchers, governments, and public health advocates with the knowledge and techniques needed to reduce lightning casualties worldwide.

Contents

Fields of Interest
Natural Hazards; Geotechnical Engineering and Applied Earth Sciences; Health Promotion and Disease Prevention; Environmental Physics

Mineralogy
An Introduction to Minerals, Rocks, and Mineral Deposits
M. Okrusch, H. Frimmel

- Presents a translation of the classic German textbook of Mineralogy and Petrology
- Serves as didactic guide to the principles of mineralogical processes
- Includes numerous figures and tables

This book presents a translation and update of the classic German textbook of Mineralogy and Petrology that has been published for decades. It provides an introduction to mineralogy, petrology, and geochemistry, discussing the principles of mineralogy, including crystallography, chemical bonding, and physical properties, and the genesis of minerals in a didactic and understandable way. […]

Contents
Introduction and basic concepts.- Systematic mineralogy – a selection of important minerals.- Petrology and metallogenesis.- Our planetary system.

Fields of Interest
Mineralogy; Geochemistry; Economic Geology

Series Title
Springer Textbooks in Earth Sciences, Geography and Environment

July 2018
XV, 193 p. 17 illus., 1 illus. in color. Hardcover. 155 x 235 mm £ 99.99 | € 109.99 | $ 139.99 ISBN 978-3-319-90592-1

All Languages Rights

June 2018
XXII, 233 p. 52 illus., 48 illus. in color. Hardcover. 155 x 235 mm £ 109.99 | € 119.99 | $ 149.99 ISBN 978-3-319-77561-6

All Languages Rights

September 2018

All Languages Rights
Tomorrow’s Coasts: Complex and Impermanent
L. D. . Wright, C. R. Nichols (Eds)

• Provides a rigorously referenced and up-to-date but non-technical synthesis of current understandings of coastal environmental processes and how they are predicted to change in the future
• Weaves together natural science and social science dimensions
• Provides non-scientists, including the lay public, politicians and decision makers with a convincing and comprehensive appreciation of what the future may hold for coastal dwellers and how we might prepare for the coming changes

This book is intended as a conceptual roadmap to show how some of the numerous pieces of complex coastal systems intersect and might interact under changing future environmental regimes. […]

Contents

Fields of Interest
Coastal Sciences; Climate Change; Nature Conservation

Series Title
Coastal Research Library

August 2018
XXI, 374 p. 123 illus., 115 illus. in color. Hardcover, 155 x 235 mm
£ 109,99 | € 129,99 | $ 159.99
ISBN 978-3-319-75452-9

All Languages Rights
Big Data for Remote Sensing: Visualization, Analysis and Interpretation
Digital Earth and Smart Earth
N. Dey, C. Bhatt, A. S. Ashour (Eds)

- Addresses the remote sensing and big data techniques/challenges along with up-to-date related topics
- Discusses advanced synthetic aperture radar imaging and feature analysis to detect images of a moving target in SAR
- Covers several studies on geocoding for airborne SAR image based on the global position system (GPS)

This book thoroughly covers the remote sensing visualization and analysis techniques based on computational imaging and vision in Earth science. Remote sensing is considered a significant information source for monitoring and mapping natural and man-made land through the development of sensor resolutions that committed different Earth observation platforms. […]

Fields of Interest
Geographical Information Systems/Cartography; Environmental Science and Engineering; Computer Imaging, Vision, Pattern Recognition and Graphics; Computational Mathematics and Numerical Analysis

International and Transnational Perspectives on Urban Systems
C. Rozenblat, D. Pumain, E. Velasquez (Eds)

- Presents a new urban system theory
- Is based on comparative empirical studies of urban systems linked to the urban system theory
- Covers urban systems for diverse parts of the world

This book reviews the recent evolutions of cities in the world according to entirely revised theoretical fundamentals of urban systems. It relies on a vision of cities sharing common dynamic features as co-evolving entities in complex systems. Systems of cities that are interdependent in their evolutions are characterized in the context of that dynamics. […]

Contents
An Evolutionary theory of Urban Systems.- Urban Systems Between National and Global: Recent Reconfiguration Through Transnational Networks.- […]

Fields of Interest
Urban Geography / Urbanism (inc. megacities, cities, towns); World Regional Geography (Continents, Countries, Regions); Sustainable Development; Regional and Cultural Studies

Series Title
Advances in Geographical and Environmental Sciences

July 2018
XIV, 154 p. 69 illus., 57 illus. in color. Hardcover. 155 x 235 mm
£ 109.99 | € 119.99 | $ 149.99
ISBN 978-3-319-89922-0

All Languages Rights

CyberGIS for Geospatial Discovery and Innovation
S. Wang, M. F. Goodchild (Eds)

- Addresses a comprehensive list of cutting edge topics constituting the scope of CyberGIS
- Provides a reference in broad fields of information and computation technologies associated social and spatial studies

This book elucidates how cyberGIS (that is, new-generation geographic information science and systems (GIS) based on advanced computing and cyberinfrastructure) transforms computation- and data-intensive geospatial discovery and innovation. […]

Contents

Fields of Interest
Geographical Information Systems/Cartography

Series Title
GeoJournal Library

May 2018
XX, 393 p. 105 illus., 91 illus. in color. Hardcover. 155 x 235 mm
£ 119.99 | € 139.99 | $ 169.99

All Languages Rights
Faszinierende Chemie
Eine Entdeckungsreise vom Ursprung der Elemente bis zur modernen Chemie
S. Feil, J. Resag, K. Riebe

- Zeigt die Welt der faszinierenden Chemie - von Elementen aus Neutronensternen zu Glyphosat.
- Fasziniert mit rund 150 Themen aus der Welt der Biochemie, Geochemie, Chemie der Moderne und vielem mehr
- Unterhält und informiert durch klar verständliche Texte und eindrucksvolle Abbildungen

In diesem Buch wird die Welt der Chemie farbenfroh und verständlich präsentiert – von den Grundlagen chemischer Prozesse über die Entstehung der Elemente bis zur Biochemie, der industriellen Chemie und der Chemie der Zukunft. Auf jeweils einer Doppelseite wird dem Leser mit vielen Bildern ein kompakter und klarer Einstieg in eines von insgesamt über 140 spannenden Themen geboten. […]

Contents
Die Basis der Chemie.- Vom Urknall zu den Elementen.- Chemie der Erde und der Planeten.- Entstehung des Lebens.- Biochemie.- Chemie in der Menschheitsgeschichte.- Chemie der Moderne.- Chemischer […]

Fields of Interest
Popular Science in Chemistry and Materials; Popular Science in Nature and Environment; Chemistry/Food Science, general

Photochemistry
A Modern Theoretical Perspective
M. Persico, G. Granucci

- Contains an in-depth explanation of molecular dynamics phenomena
- Provides questions and exercises at the end of each chapter
- Presents supplementary material that includes animations of molecular dynamics illustrating theoretical concepts

This book offers an introduction to photochemistry for students with a minimal background in physical chemistry and molecular quantum mechanics. The focus is from a theoretical perspective and highlights excited state dynamics. […]

Contents

Fields of Interest
Theoretical and Computational Chemistry; Physical Chemistry; Inorganic Chemistry

Series Title
Theoretical Chemistry and Computational Modelling

New Food Products: Evolution, Innovation Rate, and Market Penetration
A. Tarabella, B. Burchi

- Studies the evolution of food product categories by analyzing their launch on the market and introduction into legislation
- Examines the introduction of new food categories in both literature and regulation
- Proposes classification system for updating food categories based on greener, healthier and safer foods

This Brief presents an extensive analysis on the evolution of food product categories by studying both their launch on the market and their entering into legislation. The text discusses cases of specific new products, examining their introduction into literature and regulatory measures. […]

Contents
Chapter 1: The evolution of food products Chapter 2: New food categories and a proposal for a simple and tripartite classification 2.1: The introduction of new food categories in literature vs […]

Fields of Interest
Food Science

Series Title
SpringerBriefs in Food, Health, and Nutrition
DNA Nanotechnology

Methods and Protocols

G. Zuccheri (Ed)

- Includes cutting-edge methods and protocols
- Provides step-by-step detail essential for reproducible results
- Contains key notes and implementation advice from the experts

This second edition provides new and updated methods that detail new DNA nanotechnology techniques. Chapters focus on DNA origami nanostructures for arranging matter in the nanoscale or on their manipulation with the aid of other technologies, on procedures for making nucleic acids nanostructures of different kinds, and methods to simulate complex nanostructures or to use them in biosensing. […]

Contents

DNA Nanotechnology: From the Pub to Information-based Chemistry.- The Synthesis of Designer DNA.- Synthesis of DNA-based Nanowires.- Preparation of Anti-miR PNAs for Drug Development and […]

Fields of Interest

Biotechnology

Series Title

Methods in Molecular Biology

July 2018

XI, 334 p. 107 illus., 74 illus. in color.
Hardcover.
178 x 254 mm

£ 109.99 | € 119.99 | $ 149.99

ISBN 978-1-4939-8581-4

All Languages Rights
Size Matters: Why We Love to Hate Big Food
C. Arnot

- This is a must read for those in the food system who are striving to understand those outside of it, and for those outside of it who want to know more about the stuff they put in their bodies and the food fight underway over what’s healthy and responsibly produced
- Size Matters offers penetrating insight from someone who has a rare front row seat to the entire food system as a high-level consultant and advisor to ag producers, food processors, food retailers and governments
- Charlie’s unmatched ability to connect the dots, examine motivations and clarify consequences produces ah-ha moments in every chapter for consumers and food producers

Despite food being safer, more affordable and more available than at any time in human history, consumers are increasingly skeptical and critical of today’s food system. […]

Contents
Chapter 1: Sowing the Seeds of Distrust.
Chapter 2: Social License Revoked.
Chapter 3: From A&P to Omni Shopping.
Chapter 4: From Famine to Feast.
Chapter 5: How to Make Money by Doing What’s […]

Fields of Interest
Agriculture; Popular Life Sciences; Food Science

CRISPR/Cas9 – Einschneidende Revolution in der Gentechnik
T. Cathomen, H. Puchta (Eds)

- Erklärt verständlich woher CRISPR/Cas kommt und wie es funktioniert?
- Beantwortet die wichtigsten Fragen zum Einsatz von CRISPR/Cas in Medizin und Landwirtschaft
- Beleuchtet ethische Bedenken und Grenzen

Die Biologie erlebt zurzeit die größte Revolution seit 30 Jahren. Der Auslöser: die molekulare Schere CRISPR/Cas. Mit ihr ist es möglich, einfach und effizient die genetische Information eines Organismus zu verändern. Das hat weitreichende Konsequenzen für unser aller Leben. […]

Contents

Fields of Interest
Popular Life Sciences; Genetics and Genomics; Human Genetics

Systematik der Pflanzen kompakt
B. Gemeinholzer

- Liefer eine umfassende Beschreibung der Pflanzensystematik
- Vermittelt Grundlagenwissen zu Systematik, Taxonomie und Nomenklatur
- Veranschaulicht den Lernstoff mit zahlreichen Abbildungen

Dieses Kompakt-Lehrbuch vermittelt ein grundlegendes Verständnis für die Klassifizierung von Pflanzen und gibt Einblicke in den Artenreichtum der Pflanzenwelt. Es richtet sich an Bachelor- und Masterstudierende der verschiedensten Fachrichtungen. Die Autorin beschreibt hierzu die Pflanzensystematik auf dem aktuellsten Stand der Wissenschaft. […]

Contents
1 Theoretische Grundlagen und Begriffsdefinitionen.- 2 Entstehung der Lebewesen.- Die Hauptgruppen.- 3 Vom Einzeller zum thallosen Vielzeller.- 4 Die basalen Gruppen der Gefäßpflanzen - die ersten […]

Fields of Interest
Plant Sciences
Unraveling the Voynich Codex
J. Janick, A. O. Tucker
• First scientifically researched study on the Voynich Codex
• Expertly written with colorful illustrations for scientists and educated laypersons
• Unique perspective on a Mesoamerican lost language
Unraveling the Voynich Codex reviews the historical, botanical, zoological, and iconographic evidence related to the Voynich Codex, one of the most enigmatic historic texts of all time. The bizarre Voynich Codex has often been referred to as the most mysterious book in the world. [...] Contents
INTRODUCTION.- FOREWORD.- PART I. AN INTRODUCTION TO THE VOYNIH CODEX.- The Voynich Manuscript.- Description of Manuscript. Historical Context.- PART II. EVIDENCE OF MESOAMERICAN ORIGINS.- [...] Fields of Interest
Plant Systematics/Taxonomy/ Biogeography; Popular Science in History; Language Translation and Linguistics; Animal Systematics/Taxonomy/ Biogeography; Archaeology Series Title
Fascinating Life Sciences

Data Mining for Systems Biology
Methods and Protocols
H. Mamitsuka (Ed)
• Includes cutting-edge techniques for data mining in systems biology
• Provides step-by-step guidance essential for reproducible results
• Contains expert tips and implementation advice from practitioners in the field
This fully updated book collects numerous data mining techniques, reflecting the acceleration and diversity of the development of data-driven approaches to the life sciences. [...] Contents
Identifying Bacterial Strains from Sequencing Data.- MetaVW: Large-Scale Machine Learning for Metagenomics Sequence Classification.- Online Interactive Microbial Classification and Geospatial [...] Fields of Interest
Bioinformatics Series Title
Methods in Molecular Biology

Der Experimentator
Zellbiologie
S. Schmitz, C. Desel
• Neuer EXPERIMENTATOR in der berühmten und geschätzten Reihe
• Tipps und Tricks in der Anwendung werden in den Vordergrund gestellt
• Durch die gewohnt lockere Art finden angehende und erfahrene Experimentatoren schnell Hilfe
Liebeer EXPERIMENTATOR, dieser neue Zellbio-EXPERIMENTATOR stellt die wichtigsten Grundlagen im Bereich Zellbiologie vor und erklärt moderne Techniken, die in diesem Forschungsfeld ihre Anwendung finden. Die breite Themenauswahl - von Routineverfahren bis hin zu neuen anspruchsvollen Methoden - hilft Neulingen beim Einstieg in die Praxis und bereichert die Arbeit von erfahrenen Experimentatoren. [...] Contents
Vorwort 1 Theoretische Grundlagen der Zellbiologie.- 2. Praktische Grundlagen der Zellbiologie.- 3 Lichtmikroskopie.- 4 Fluoreszenzmikroskopie.- 5 Zellzyklus und Proliferation, Differenzierung und [...] Fields of Interest
Cell Biology; Biological Techniques; Laboratory Medicine; Biological Microscopy Series Title
Experimentator

Additional information:
- **Unraveling the Voynich Codex**
  - First scientifically researched study on the Voynich Codex
  - Expertly written with colorful illustrations for scientists and educated laypersons
  - Unique perspective on a Mesoamerican lost language
- **Data Mining for Systems Biology**
  - Includes cutting-edge techniques for data mining in systems biology
  - Provides step-by-step guidance essential for reproducible results
  - Contains expert tips and implementation advice from practitioners in the field
- **Der Experimentator Zellbiologie**
  - Neuer EXPERIMENTATOR in der berühmten und geschätzten Reihe
  - Tipps und Tricks in der Anwendung werden in den Vordergrund gestellt
  - Durch die gewohnt lockere Art finden angehende und erfahrene Experimentatoren schnell Hilfe
- **Additional series information**
  - Fascinating Life Sciences
  - Methods in Molecular Biology
  - Experimentator
Microbial Bioprospecting for Sustainable Development
J. Singh, D. Sharma, G. Kumar, N. R. Sharma (Eds)

- Easy informative illustrations of recent trends in microbial technology
- Start with basic cell behavior and elaborate the advanced prospective of the latest findings
- Elaborated and expressive tables and figures with concise information
- Suggest future research avenues in the field of microbial sustainability

This book presents a comprehensive overview of the use of microorganisms and microbial metabolites as a future sustainable basis of agricultural, environmental and industrial developments. [..]

Contents
Part I Microorganisms for sustainable agriculture and environmental applications.- Small at Size, Big at Impact: The Microbial Way of Life.- Bioherbicidal Concept: A Novel Strategy to Control [..]

Fields of Interest
Microbiology; Applied Microbiology; Waste Management/Waste Technology; Microbial Ecology

The Beachcomber’s Guide to Marine Debris
M. Stachowitsch

- Addresses global topics in marine pollution and key issues in marine tourism
- Features more than 700 color photographs that document different types of beach litter
- Motivates the reader with insight and a pinch of humor

This richly illustrated book serves as the ideal guide to the items that litter the world’s beaches. Forget sea shells and other fauna and flora. Here, you will find what a beachcomber is actually most likely to encounter most these days: glass, plastic, wood, metal, paper, oil, and other sources of marine pollution! [..]

Contents

Fields of Interest
Popular Science in Nature and Environment; Conservation Biology/Ecology; Nature Conservation; Freshwater and Marine Ecology; Marine and Freshwater Sciences; Waste Water Technology / Water Pollution Control / Water Management / Aquatic Pollution

Das Mosaik der Menschwerdung
Vom aufrechten Gang zur Eroberung der Erde: Humanevolution im Überblick
D. Suhr

- Leicht verständlich: Aktuelle Orientierung zum Stand der Forschung über die Menschwerdung Übersicht über alle derzeit diskutierten Theorien der Humanevolution
- Versuch der Darstellung eines Gesamtbildes: So wurde der Mensch zum Menschen
- Zahlreiche Abbildungen berühmter Hominiden-Fossilien und -Rekonstruktionen

Humanevolution im Überblick: Das Mosaik der Menschwerdung Bis vor wenigen Jahren schien die Entstehung des Menschen weitgehend geklärt, der menschliche Stammbaum vollständig darstellbar: Entstanden in Afrika, sollte sich unsere Gattung von Vor- und Frühmenschen in einer aufsteigenden Reihe zum modernen Homo sapiens entwickelt haben. [..]

Contents
Einführung.- Der Mensch und seine Stellung im Tierreich im Wandel der Zeit.- Evolution des Lebens.- Evolutionstheorie – “Nichts in der Biologie ergibt Sinn außer im Licht der Evolution”.- [..]

Fields of Interest
Popular Life Sciences; Evolutionary Biology; Biological Anthropology
Bird Species
How They Arise, Modify and Vanish
D. T. Tietze (Ed)

- Broadens our understanding of the bird species concept
- Explains which factors influence bird diversity
- Includes a glossary and additional info boxes for speciation specific terms

The average person can name more bird species than they think, but do we really know what a bird “species” is? This book takes up several fascinating aspects of bird life to elucidate this basic concept in biology. From genetic and physiological basics to the phenomena of bird song and bird migration, it analyzes various interactions of birds – with their environment and other birds. […]

Contents

Fields of Interest
Zoology; Animal Ecology; Evolutionary Biology

Series Title
Fascinating Life Sciences
Spirochete Biology: The Post Genomic Era
B. Adler (Ed)
- Provides new insights into the key aspects of spirochete biology
- Summarizes the major advances in our knowledge made possible by genome sequencing and the development of genetic tools for the manipulation of spirochetes
- Written by leading spirochetologists

Contents
The Treponema pallidum Outer Membrane.-
Gene regulation, two component regulatory systems, and adaptive responses in Treponema denticola.-
Physiologic and Genetic Factors Influencing the Zoonotic [...] 

Fields of Interest
Medical Microbiology; Parasitology; Infectious Diseases; Bacteriology

Series Title
Current Topics in Microbiology and Immunology

Basic Serological Testing
R. Y. Alhabbab
- Each chapter contains study questions and learning objectives
- Easy-to-follow directions for the novice user
- Contains numerous helpful illustrations

This book discusses in detail various serological tests that are used to identify medical conditions and diseases, from a general overview of each test to the equipment and steps needed to carry them out. The book is aimed specifically at immunology students and professionals who may occasionally need to use these tests, and thus lack training and experience in performing them. [...] 

Contents
Foreword.- Preface.- Acknowledgements.-
Introduction to the Immune System.-
Antibody and antigen interaction.-
Precipitation and Agglutination Reactions.-
Rapid Plasma Reagin (RPR) Test.- [...] 

Fields of Interest
Laboratory Medicine; Immunology

Series Title
Techniques in Life Science and Biomedicine for the Non-Expert

Accelerated Path to Cures
J. Bassaganya-Riera (Ed)
- Details the role of modeling and computational approaches in precision medicine
- Highlights the progress towards precision medicine
- Advances Path to Cures

Accelerated Path to Cures provides a transformative perspective on the power of combining advanced computational technologies, modeling, bioinformatics and machine learning approaches with nonclinical and clinical experimentation to accelerate drug development. [...] 

Contents
Chapter 1: Introduction to Accelerated Path to Cures and Precision Medicine in Inflammatory Bowel Disease.- Chapter 2: Computer-Aided Drug Discovery.- Chapter 3: Preclinical Studies: Efficacy and [...] 

Fields of Interest
Immunology; Computational Biology/ Bioinformatics; Health Informatics; Computer Appl. in Life Sciences
Behavioral Neuroscience of Learning and Memory
R. E. Clark, S. Martin (Eds)

- Brings evidence from human and animal research together in a single volume
- Explains how technological advances are opening up new possibilities for research that would have seemed like science fiction only a few years ago
- SHOWCASES THE KNOWLEDGE AND OPINIONS OF SOME OF THE WORLD’S CUTTING-EDGE NEUROBIOLOGICAL RESEARCHERS IN LEARNING AND MEMORY RESEARCH.

Contents
Preface.- A History and Overview of the Behavioral Neuroscience of Learning and Memory. - Current Topics Regarding the Function of the Medial Temporal Lobe Memory System.- Neural activity patterns

Fields of Interest
Neurosciences; Behavioral Sciences; Neurobiology; Neurology; Transgenics

Series Title
Current Topics in Behavioral Neurosciences

Standards for Ocular Toxicology and Inflammation
B. C. Gilger, C. S. Cook, M. H. Brown (Eds)

- This book is an international effort to standardize the language, terms, and methods used in ocular toxicology and all research organizations and pharmaceutical companies will need to reference the material.
- Step-by-step procedures
- Endorsed by the American College of Veterinary Ophthalmologists

This book is an international effort to standardize the language, terms, and methods used in ocular toxicology. With over 300 color illustrations this consensus volume provides standards and harmonization for procedures, terminology, and scoring schemes for ocular toxicology.

Contents
Standards for Conducting Ophthalmic Examinations in Laboratory Animals.- Standard Operating Procedures for Common Ocular Experimental Procedures.- Harmonization of Lesion Nomenclature and

Fields of Interest
Pharmacology/Toxicology; Ophthalmology

Series Title
Current Topics in Behavioral Neurosciences

Behavioral Neurobiology of Psychedelic Drugs
A. L. Halberstadt, F. X. Vollenweider, D. E. Nichols (Eds)

- The volume brings together clinical and preclinical research literatures
- A balanced view of the potential risks and benefits of these compounds is presented
- The focus is on rigorous scientific findings in a field that has been fraught with speculative reports

This volume brings together the latest basic and clinical research examining the effects and underlying mechanisms of psychedelic drugs. Examples of drugs within this group include LSD, psilocybin, and mescaline. Despite their structural differences, these compounds produce remarkably similar experiences in humans and share a common mechanism of action.

Contents
Preface.- Chemistry and structure-activity relationships of psychedelics.- Hallucinogens and serotonin 5-HT2A receptor-mediated signaling pathways.- Effects of hallucinogens on neuronal activity.

Fields of Interest
Neurosciences; Psychopharmacology; Medicinal Chemistry

Series Title
Current Topics in Behavioral Neurosciences
The Gut Microbiome in Health and Disease

D. Haller (Ed)

- Provides a comprehensive overview on the complex functions of the human gut flora
- Discusses common diseases associated with the gut microbiome
- Presents state of the art techniques in microbial ecology and its clinical applications

The book provides an overview on how the gut microbiome contributes to human health. The readers will get profound knowledge on the connection between intestinal microbiota and immune defense systems. The tools of choice to study the ecology of these highly-specialized microorganism communities such as high-throughput sequencing and metagenomic mining will be presented. […]

Contents
The Gut Microbiome in Health and Disease
- Introduction.
- Composition and Function of the Gut Microbiome.
- Microbiome and Early Life.
- Molecular Microbiome Analysis.
- Evolutionary Perspectives on […]

Fields of Interest
Medical Microbiology; Immunology; Bacteriology

Developmental Origins of Health and Disease (DOHaD)
From Biological Basis to Clinical Significance

T. Kubota, H. Fukuoka (Eds)

- Covers numerous diseases associated with DOHaD
- Presents an update of our understanding of molecular mechanisms for DOHaD
- Based on the latest biological data
- Suggests importance of early interventions for adult diseases

This book addresses the developmental origins of health and disease (DOHaD), a new medical concept that demonstrates that various adult diseases start in the fetal period. […]

Contents
Part 1 Biological Basis.
- One carbon metabolism and lipid metabolism in DOHaD.
- Novel models of epigenetic gene regulation in the nutritional environment.
- Epigenetic switching and neonatal […]

Fields of Interest
Human Physiology; Reproductive Medicine; Developmental Biology

The Genetics and Development of Scoliosis
K. Kusumi, S. L. Dunwoodie (Eds)

- Written by leaders in genetic and developmental research on scoliosis
- The only book currently on the market that incorporates knowledge in clinical, genetic, and developmental aspects of scoliosis
- Recent developments in key clinical and molecular genetic studies of these disorders are also discussed

Our understanding of the genetic and developmental mechanisms underlying scoliosis is rapidly evolving, this timely second edition of The Genetics and Development of Scoliosis is to provide researchers, clinicians, and students with the most current views in this field. […]

Contents
Chapter 2: Environmental Factors and Axial Skeletal Dysmorphogenesis.
Chapter 3: Congenital Scoliosis and Segmentation Defects of the […]

Fields of Interest
Human Genetics; Developmental Biology; Human Physiology; Orthopedics
Textbook of Energy Balance, Neuropeptide Hormones, and Neuroendocrine Function

E. A. Nillni (Ed)

- Presents for the first time a comprehensive body of the latest knowledge in the field of neuropeptides and their action on energy balance
- Includes review questions for each chapter
- Excellent text for teaching graduate and medical school courses

This textbook presents for the first time a comprehensive body of the latest knowledge in the field of neuropeptides and their action on energy balance. It contains a detailed and comprehensive account of the specific hypothalamic peptides in regards to their roles in energy balance, food intake control and co-morbidities, to better understand the patho-physiology of obesity.

Contents

Fields of Interest
Neurochemistry; Endocrinology; Human Physiology

Stromal Immunology

B. M. Owens, M. A. Lakins (Eds)

- Discusses the newfound role of stromal cells in immune response
- Provides a solid grounding in the fundamentals of stromal immunology
- First comprehensive resource about stromal immunology
- Research into and interest in the role of stromal cells in immunology has exploded over the past 15 years.

Contents
Leukocyte-Stromal Interactions within Lymph Nodes.- Stromal Cell Responses in Infection.- Fibroblasts and Osteoblasts in Inflammation and Bone Damage.- Molecular and Cellular Requirements for [..]

Fields of Interest
Immunology; Cell Biology

Series Title
Advances in Experimental Medicine and Biology

Pharmacotherapeutic Potential of Natural Products in Neurological Disorders

A. S. Saroya, J. Singh

- Gives an authoritative account of the latest research finding of the herbal natural products for treatment of various neurological disorders
- Provides data on rare herbal drugs which have potential remedial role in neurological diseases
- Presents translational aspects of herbal medicines

Natural Products have always played a pivotal role as sources for drug lead compounds. This book is aimed at providing inside purview of the scope of natural products (including herbal and marine) in the possible treatment of neurological disorders.

Contents

Fields of Interest
Neurosciences; Pharmaceutical Sciences/Technology; Drug Safety and Pharmacovigilance

August 2018
XIV, 378 p. 49 illus., 47 illus. in color. Hardcover. 178 x 254 mm
£ 99,99 | € 109,99 | $ 139.99
ISBN 978-3-319-89505-5

All Languages Rights

August 2018
XII, 151 p. 15 illus. in color. Hardcover. 155 x 235 mm
£ 109,99 | € 119,99 | $ 149.99
ISBN 978-3-319-78125-9

Pharmacotherapeutic Potential of Natural Products in Neurological Disorders

A. S. Saroya, J. Singh

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Fields of Interest
Neurosciences; Pharmaceutical Sciences/Technology; Drug Safety and Pharmacovigilance

August 2018
XV, 191 p. 233 illus. Hardcover. 155 x 235 mm
£ 109,99 | € 129,99 | $ 159.99

All Languages Rights
Fundamentals of Anorectal Surgery
D. E. Beck, S. R. Steele, S. D. Wexner (Eds)

- Written by world class surgeons and gastroenterologists
- Presents diagnoses and treatment of the entire spectrum of anorectal diseases
- A complete, comprehensive and current compendium

This book is a comprehensive and current guide to the diagnosis and treatment of the entire spectrum of anorectal diseases. It focuses mainly on anorectal problems, as anorectal pathology is often more complex and challenging for surgeons than colonic diseases. […]

Contents

Fields of Interest
Colorectal Surgery; Urology; Minimally Invasive Surgery

Kompendium der Psychiatrischen Pharmakotherapie
O. Benkert, H. Hippius (Eds)

- Superaktuell - Updates bis kurz vor Drucklegung
- Alle Medikamente, alle Störungen - kurz, verlässlich, übersichtlich
- Bewertung der einzelnen Medikamente - aus Erfahrungen lernen
- Seit Jahrzehnten der unangefochtene Bestseller für die Psychopharmakotherapie! Seit nunmehr 12 Auflagen steht das Buch für Verlässlichkeit und Kompetenz. In der Neuausgabe wurden sämtliche Inhalte sorgfältig überarbeitet und auf den neuesten Stand gebracht. […]

Contents
1 Antidepressiva.- 2 Medikamente zur Behandlung bipolarer Störungen.- 3 Antipsychotika.- 4 Anxiolytika.- 5 Medikamente zur Behandlung von Schlafstörungen.- 6 Antidementiva.- 7 Medikamente zur […]

Fields of Interest
Psychiatry; Neurology; Internal Medicine; General Practice / Family Medicine

Motion and Emotion
The Neuropsychiatry of Movement Disorders and Epilepsy
A. E. Cavanna

- Provides a fresh overview of the main neuropsychiatric conditions
- Includes approaches from different neuropsychiatric associations and groups Defines neuropsychiatry – historically and today
- This book illustrates the clinical interface between neurology and psychiatry by focusing on neuropsychiatric conditions characterised by alterations at the level of both motor function and behaviour. The neuropsychiatric approach to movement disorders and epilepsy is of key importance in clinically assessing and treating these common and often disabling conditions. […]

Contents
Neuropsychiatry and behavioural neurology.- The neuropsychiatry of movement disorders.- The neuropsychiatry of epilepsy.- Conclusion: past, present and future.

Fields of Interest
Neurology; Psychiatry
Minimally Invasive Aesthetic Procedures
A Guide for Dermatologists and Plastic Surgeons
A. D. Costa (Ed)

- Provides a clinical and technical guide, with handy and practical information on the most relevant minimally invasive and non-invasive aesthetic procedures
- Includes more than a hundred procedures presented and discussed in a clinically applicable format
- Addresses the needs of both Dermatologists and Plastic Surgeons

Minimally invasive aesthetic procedures are important, routine techniques in dermatology. However, both Dermatologist and Plastic Surgeons are becoming more willing to explore and use these techniques. Overall the use of these procedures continues to expand in both fields. […]

Contents
Foreword.- 1. For Plastic Surgeons.- 2. For Dermatologists.- Preface.- Session 1 - Peeling.-1. Introduction: Classification of peels.- 2. Pearl chapter: Basis of photoaging and the use of chemical […]

Fields of Interest
Plastic Surgery; Dermatology

Handbook of Pediatric Epilepsy
D. Dredge (Ed)

- A concise handbook that is tailor-made for busy clinical professionals and trainees across all medical specialities
- Includes the most up-to-date clinical guidelines, major clinical trials and drug developments in the field
- An evidence-based overview of common pediatric epilepsies and best-practice diagnostic, treatment and management options

Epilepsy is the most common neurological problem affecting children and adolescents, with an incidence rate of 1–2%. Diagnosing epilepsy in children is often complicated by age-dependent manifestations which can differ greatly from seizure disorders seen in adults. […]

Contents
Introduction.- Causes of epilepsy in childhood.- Common types of pediatric epilepsy.- Clinical features.- Clinical neurological examination and diagnosis.- Treatment options.- Long-term […]

Fields of Interest
Neurology; Pediatrics

Dysphagia
Diagnosis and Treatment
O. Ekberg (Ed)

- Provides a multidisciplinary and clinically useful description of the diagnosis and management of dysphagia
- Covers a variety of benign and malignant disease entities, signs and symptoms, and treatment approaches
- Presents state of the art information on symptomatology and pathophysiology

The second edition of this well-received book provides a comprehensive and up-to-date description of the diagnosis and management of dysphagia, including oral, pharyngeal, and esophageal dysfunction. All aspects of dysphagia are covered, with detailed consideration of anatomy, physiology, and pathology. […]

Contents
PART I Anatomy and Physiology: Anatomy and Physiology.- Saliva and the Control of Its Secretion.- Feeding and Respiration.- Oral and Pharyngeal Function and Dysfunction.- Part II Clinical […]

Fields of Interest
Imaging / Radiology; Otorhinolaryngology; Gastroenterology; Geriatrics/Gerontology

Series Title
Medical Radiology
Eye Surgery
An Introduction to Operative Technique
R. FECHTNER, A. Khouri (Eds)

- Thoroughly updated from the highly acclaimed text by Dr. Georg Eisner
- Includes extensive color illustrations
- Provides a clear and practical application of ergonomic and engineering principles that allows surgeons to take advantage of the design instruments and techniques

New edition combines the core principles and practices found in the original classic with extensive updates from the last two decades. Written and edited by leaders in the field, Foreword written by Dr. Georg Eisner

Eye Surgery, 3rd edition combines the core principles and practices found in the first two editions with extensive updates from the last two decades. Written and edited by leaders in the field, Foreword written by Dr. Georg Eisner

Contents
Introduction Foreword [...]
Physiotherapeutisches Training bei Rückenschmerzen
Motorische Befunderhebung und Behandlung
P. Geraedts
• Handlungsempfehlungen für eine wirksame Therapie gegen Rückenschmerzen
• Erklärt biomechanische und schmerzphysiologische Hintergründe zum Rückenschmerz
• Zeigt den Aufbau einer methodischen, wissenschaftlich fundierten Therapie für Physiotherapeuten, Sportwissenschaftler und Reha-Trainer in diesem Buch eine völlig neue Sichtweise auf die Entstehung von Rückenschmerzen und deren Konsequenzen für die Trainingstherapie. […]

Contents
Stillstand ist Rückschritt - Zur aktuellen Diagnostik und Behandlung des Rückenschmerzes. - Bewusste (Schmerz-) Erlebnisse als Resultat weiterleitender und verarbeitender Prozesse bei sensorischer [...] 

Fields of Interest
Physiotherapy; Occupational Therapy; Conservative Orthopedics

Praxis Körperpsychotherapie
10 Prinzipien der Arbeit im therapeutischen Prozess
U. Geuter
• Embodiment: So wird mit Körper und Psyche in der Psychotherapie gearbeitet
• Für die Praxis: Grundlagen zum Erleben und Erfahren in der Therapie
• Hoher Nutzwert: Techniken und Methoden professionell aufbereitet

Dieses Buch zeigt zehn grundlegende Prinzipien einer erlebenszentrierten Psychotherapie, die Körpererleben, Körperwahrnehmung, Körperausdruck und Körperkommunikation integriert. Es stellt Therapie als eine verkörperte Begegnung vor und vermittelt, wie man den Körper einbezieht und welche Sprache man dazu verwendet – so wird das Konzept des Embodiment in der Praxis nutzbar. […]

Contents

Fields of Interest
Psychotherapy; Psychotherapy and Counseling; Psychiatry; Rehabilitation; Consulting, Supervision and Coaching; Complementary and Alternative Medicine

Series Title
Psychotherapie: Praxis

Nervensonographie kompakt
Anatomie der peripheren Nerven mit Landmarks
H. Gruber, A. Loizides, B. Moriggl (Eds)
• Hilft, jeden peripheren Nerv des menschlichen Körpers schnell aufzufinden
• Bietet klare Orientierung mit externen und internen Landmarks
• Nutzbar, die Anwendung von hochauflösenden Sonden der neuesten Generation mit Frequenzen von bis zu 24 MHz

Dieser Taschenatlas stellt erstmalig die topographische Anatomie aller peripheren Nerven im Ultraschall mit Fokussierung auf spezielle Landmarken dar: mit den Punkten der optimalen Visibilität (POV). Annähernd alle Nerven des menschlichen Körpers sind mit hochauflösenden Schallköpfen bis zu 24 MHz im Detail dargestellt. […]

Contents

Fields of Interest
Neurology; Neurosurgery; Anesthesiology; Imaging / Radiology; Pain Medicine; Orthopedics
Botulinum Toxins, Fillers and Related Substances
M. C. A. Issa, B. Tamura (Eds)

- Delivers a practical guide on cosmetic dermatology
- Collates the most recent knowledge regarding the use of botulinum toxins, fillers and related substances
- Illustrates procedures and results, step by step, through impressive collections of color photographs

The series “Clinical Approach and Procedures in Cosmetic Dermatology” intends to be a practical guide in Cosmetic Dermatology. Procedures in cosmetic dermatology are very popular and useful in medicine, indicated to complement topical and oral treatments not only for photodamaged skin but also for other dermatosis such as acne, rosacea, scars, etc. [...]

Contents
SECTION A: BOTULINUM TOXINS Chapter 1. Anatomy for Botulinum toxin application.- Chapter 2. Toxin for frontal area.- Chapter 3. Toxin for glabellar area and nose.- Chapter 4. Toxin for malar and [...]
Hand and Wrist Injuries In Combat Sports
A Guide to Diagnosis and Treatment
R. Luchetti, L. Pegoli, G. I. Bain (Eds)
• Covers both injuries characteristic of individual sports and those encountered across a range of sports
• Explains mechanisms of injury
• Offers state of the art guidance on diagnosis and treatment
This well-illustrated book describes the injuries to the hand and wrist that are commonly encountered among participants in combat sports, explaining the mechanisms of injury and offering state of the art guidance on diagnosis and treatment. [..]

Contents
1 Hand and Wrist Injury in Kick Boxing. 2 Peripheral Nerve Compression in Combat Sport. 3 PIP Joint Injuries in Combat Sport. 4 Hand Injury in Kendo. 5 Hand and Wrist Injuries in Karate. 6 [..]

Fields of Interest
Orthopedics; Sports Medicine; Rehabilitation

Cardiology Consult Manual
H. Z. Mieszczanska, A. S. Budzikowski (Eds)
• Contains essential information for the study of cardiology
• Presents essential information to the study of cardiology in an easily digestible format
• Reviews key diagnostic and treatment points for a range of cardiac issues in a simple, easy to read
This book comprehensively covers the latest advances in cardiovascular medicine. [..]

Contents
The Cardiovascular Physical Examination. Evaluation and Management of Chest Pain and Acute Coronary Syndrome (ACS) in the Emergency Department. Cardiac Electrocardiography. Primary and [..]

Fields of Interest
Cardiology; Cardiac Surgery

Migraine Surgery
A Clinical Guide to Theory and Practice
T. Muehlberger
• Provides both theoretical and practical information on migraine surgery
• Authored by a respected expert in this field
• Includes a critical analysis of this controversial topic
Migraine surgery is the only existing treatment option that can lead to a permanent symptomatic improvement. Surgical techniques and advances in the understanding of the underlying mechanisms are evolving rapidly. [..]

Contents

Fields of Interest
Plastic Surgery; Neurology; Pain Medicine

August 2018
X, 399 p. 356 illus., 233 illus. in color. Hardcover. 178 x 254 mm
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ISBN 978-3-319-52901-1

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August 2018
VIII, 456 p. 108 illus., 72 illus. in color. Softcover. 155 x 235 mm
£ 89.99 | € 99.99 | $ 119.99
ISBN 978-3-319-89724-0

All Languages Rights

June 2018
X, 283 p. 110 illus., 100 illus. in color. Hardcover. 155 x 235 mm
£ 99.99 | € 109.99 | $ 129.00
ISBN 978-3-319-78116-7

All Languages Rights
Cell and Gene Therapies
M. Perales, S. A. Abutalib, C. Bollard (Eds)

- Addresses key clinically relevant issues across the full spectrum of cell and gene therapies
- Draws attention to the availability and implications of high-impact clinical trials
- Assists trainee and practicing hematologists and transplant physicians in the delivery of optimal care

In this book, experts in the field express their well-reasoned opinions on a range of complex, clinically relevant issues across the full spectrum of cell and gene therapies with the aim of providing trainee and practicing hematologists, including hematopoietic transplant physicians, with information that is relevant to clinical practice and ongoing research. [...] Contents

Historical perspective and current focus.

Fields of Interest
Hematology; Oncology

Series Title
Advances and Controversies in Hematopoietic Transplantation and Cell Therapy

December 2018
Approx. 200 p. 60 illus., 20 illus. in color. Hardcover.
155 x 235 mm
£ 70.50 | € 79,99 | $ 99.00
ISBN 978-3-319-54367-3

All Languages Rights

Praxisbuch Gynäkologische Onkologie
E. Petru, D. Fink, O. R. Köchli, S. Loibl (Eds)

- Aktuelle Standards in Diagnostik und Therapie- effizient und – effizient und praxisorientiert
- Bewährtes Nachschlagewerk
- Herausgeber und Autorenteam aus namhaften Experten

Dieses kompakte und praxisrelevante Standardwerk richtet sich alle Ärzte in Klinik und Praxis, die Patientinnen mit bösartigen Tumoren des Genitales und der Mamma behandeln. Die 5. Auflage wurde komplett aktualisiert und auf der Basis internationaler Leitlinien und Empfehlungen auf den neuesten Wissensstand gebracht. [...] Contents

Maligne Tumoren der Mamma.- Maligne Tumoren der Mamma: Fertilität, Kontrazeption und Hormonersatz.- Maligne epitheliale Tumoren des Corpus uteri (einschließlich des Karzinosarkoms).- Maligne. [...] Fields of Interest
Gynecology; Oncology; General Surgery

Fields of Interest
Gynecology; Oncology

Series Title
Advances and Controversies in Hematopoietic Transplantation and Cell Therapy

October 2018
IX, 357 S. 46 Abb. Hardcover.
210 x 279 mm
£ 59.99 | € 70.08 | $ 84.99
ISBN 978-3-662-57429-4

All Languages Rights

Monitoring Tissue Perfusion in Shock
From Physiology to the Bedside
A. A. Pinto Lima, E. Silva (Eds)

- Shows the benefit of monitoring tissue oxygenation as a point-of-care test using noninvasive methods
- Demonstrates how evaluation of regional tissue oxygenation at the bedside is feasible and reproducible
- Represents an easy-to-use resource for the ICU team and other clinicians

This book describes various aspects of the basic physiological processes critical to tissue perfusion and cellular oxygenation, including the roles of the circulatory system, respiratory system, blood flow distribution and microcirculation. [...] Contents

Intensive / Critical Care Medicine; Emergency Medicine; Anesthesiology; Internal Medicine

Fields of Interest
Intensive Care; Emergency Medicine; Anesthesiology; Internal Medicine

Series Title
Advances and Controversies in Hematopoietic Transplantation and Cell Therapy

June 2018
VIII, 206 p. 34 illus., 17 illus. in color. Hardcover.
155 x 235 mm
£ 79.00 | € 89.99 | $ 109.00
ISBN 978-3-319-43128-4

All Languages Rights
This book provides a comprehensive guide to successful kidney transplantation in the highly regulated environment of today. It covers the history of kidney transplant to highlight innovations that have made kidney transplantation so successful as well as the new deceased donor kidney allocation strategy and postulates what types of changes might occur with this new policy. [...] 

Contents

History of kidney transplantation.- Recipient Selection.- Indications and contraindications.- Evaluation and selection.- Special considerations in highly sensitized candidates.- Waitlist [...]
Individualized Care
Theory, Measurement, Research and Practice
R. Suhonen, M. Stolt, E. Papastavrou (Eds)

- Offers a joint content for theory, research and practice based on scientific literature
- Provides a complete knowledge and solutions for better individualized patients nursing care
- Describes a process of instrument development, validation and use in international context

This contributed book is based on more than 20 years of researches on patient individuality, care and services of the continuously changing healthcare system. It describes how research results can be used to respond to challenges on individuality in healthcare systems. Service users’, patients’ or clients’ point of views on care and health services are urgently needed. […]

Contents
Forewords. - Chapter 1. Introduction. - Section I Theoretical framework for individualized care. - Chapter 2. Understanding the basics/importance of individualized care / philosophy. - Chapter 3. […]

Fields of Interest
Nursing; Quality of Life Research; Public Health

September 2018
XVI, 232 p. 3 illus., 1 illus. in color. Hardcover.
155 x 235 mm
£ 39.99 | € 44.99 | $ 54.99
ISBN 978-3-319-89898-8

All Languages Rights

New Trends in Craniovertebral Junction Surgery
Experimental and Clinical Updates for a New State of Art
M. Visocchi (Ed)

- Provides an update on the classical transoral and transnasal microsurgery
- Presents endoscopic techniques, neuronavigation and neuromonitoring
- Includes Cadaver Lab organization for surgical training

This issue of Acta Neurochirurgica presents the latest surgical and experimental approaches to the craniovertebral junction (CVJ). It discusses anterior midline (transoral transnasal), posterior (CVJ craniectomy laminectomy, laminotomy, instrumentation and fusion), posterolateral (far lateral) and anterolateral (extreme lateral) approaches using state-of-the-art supporting tools. […]

Contents
Embriological bases of CVJ diseases. - Anatomic implications for surgical indications. - Biomechanics of CVJ. - Cadaver lab for surgical training in CVJ diseases. - Cadaver lab for surgical training in […]

Fields of Interest
Neurosurgery; Surgical Orthopedics; Neuroradiology

Series Title
Acta Neurochirurgica Supplement

August 2018
IV, 408 p. 171 illus., 73 illus. in color. Hardcover.
210 x 279 mm
£ 199.99 | € 219.00 | $ 299.00
ISBN 978-3-319-62514-0

All Languages Rights
Coaching for Rational Living
Theory, Techniques and Applications
M. E. Bernard, O. A. David (Eds)

• Focus is on a REBT perspective
• Noted experts contribute theory and clinical guides
• Includes evidence-based techniques

This eminently useful guide presents an up-to-date framework for Rational-Emotive Cognitive-Behavioral Coaching (RE-CBC), from basic concepts, techniques, and applications to evidence of how and why this versatile method works. [...]?

Contents

Fields of Interest
Cognitive Psychology

Travel and Movement in Clinical Psychology
The World Outside the Clinic
M. Desai

• Includes a Foreword by Jeffrey Sachs, economist and leading expert on the fight against poverty
• Discusses how external factors such as racism, sexism, poverty and climate change impact mental health
• Proposes a new way of practising clinical psychology through 'travel' and 'movement'

This book concerns clinical psychology, but it is most concerned with the world outside the clinic. That world—where culture, history, and economy are found—radically impacts the public’s mental health. However these worldly considerations often do not feature centrally in the science and practice of clinical psychology, a subfield of psychology seemingly dedicated to mental health. [...]?

Contents
I. Clinical Psychology, Insularity, and the World outside the Clinic.- II. Travel and Movement in History: Frantz Fanon, Karen Horney, and Erich Fromm.- III. Travel and Movement as Science and [...]?

Fields of Interest
Clinical Psychology; Personality and Social Psychology; Community and Environmental Psychology; Phenomenology; Social Justice, Equality and Human Rights

Global Psychologies
Mental Health and the Global South
S. Fernando, R. Moodley (Eds)

• Explores non-Western approaches to Psychology
• Calls for academia to promote cross-national and cross-cultural understanding
• Brings together specialists from across the globe

This book critiques our reliance on Eurocentric knowledge in the education and training of psychology and psychiatry. Chapters explore the diversity of 'constructions of the self' in non-Western cultures, examining traditional psychologies from Africa, Asia, Australasia, and Pre-Columbian America. [...]?

Contents
Chapter 1: Introduction to Global Psychologies: Mental Health and the Global South; Suman Fernando & Roy Moodley.- Part I: Theoretical, Philosophical and Historical Contexts.- Chapter 2: [...]?

Fields of Interest
Cross Cultural Psychology; Global/International Culture; Self and Identity; Science, Humanities and Social Sciences, multidisciplinary; Psychiatry

June 2018
XII, 483 p. 23 illus. Hardcover.
155 x 235 mm
£ 99.99 | € 109.99 | $ 129.00
ISBN 978-3-319-74066-9

May 2018
XV, 214 p. Hardcover.
148 x 210 mm
£ 79.99 | € 89.99 | $ 99.99
ISBN 978-1-137-57173-1

July 2018
XXIX, 329 p. 7 illus. Hardcover.
148 x 210 mm
£ 109.99 | € 119.99 | $ 149.99
Cyberpsychology as Everyday Digital Experience across the Lifespan
D. Harley, J. Morgan, H. Frith

- Discusses how digital technology has influenced human experience and relationships
- Approaches cyberpsychology from a new angle
- Explores how various life stages influence and are influence by digital technologies

Digital technologies are deeply embedded in everyday life with opportunities for information access and perpetual social contact now mediating most of our activities and relationships. This book expands the lens of Cyberpsychology to consider how digital experiences play out across the various stages of people’s lives. [...] 

Contents
Chapter 1: Understanding Digital Technology as Everyday Experience.
Chapter 2: Growing Up Online.
Chapter 3: Being yourself.
Chapter 4: Having a social life.
Chapter 5: Being ‘Sexy’.

Fields of Interest
Personality and Social Psychology; Media Studies; Community and Environmental Psychology; Self and Identity

Wir sind Team
Ein neuer Blick auf Teamentwicklung
N. Harramach, M. Köttritsch, N. Veličković

- Teamentwicklung ganz an der Praxis ausgerichtet
- Spezielle Tipps für TeamEntwicklung
- Basis sind über 500 Anwendungsfälle

Das Buch zeigt – ausschließlich für die Praxis – die Möglichkeiten der Teamentwicklung und Teamarbeit auf. Es verdeutlicht nicht nur die gruppendynamischen wie systemischen Grundlagen, sondern stellt auch Unterschiede zu den verbreiteten Ansätzen dar, basierend auf mehr als 500 Teamentwicklungs-Projekten.

Contents
Die tägliche Zusammenarbeit in Teams als „Family Groups“.
Teamentwicklung als Lücke zwischen Personal- und Organisationsentwicklung.
Abgrenzungen und Ergänzungen zu gruppendynamischen und [...] 

Fields of Interest
Consulting, Supervision and Coaching; Industrial and Organizational Psychology; Economic Psychology

Resilienz für die VUCA-Welt
Individuelle und organisationale Resilienz entwickeln
J. Heller (Ed)

- Der Band vereint sowohl aktuelle Forschungsergebnisse wie Praxiserfahrungen zu organisationaler Resilienz
- Coaches und UnternehmerInnen erhalten einen umfassenden Überblick über die unterschiedlichen Herangehensweisen an Resilienz
- Zudem legt der Band Wert auf körperorientierte Maßnahmen zur Resilienzförderung, denn Resilienz entsteht im Zusammenspiel von Psyche und Körper

VUCA (volatility, uncertainty, complexity, ambiguity) bestimmen unsere Umwelt, im privaten wie im Unternehmenskontext. Krisen stehen auf der Tagesordnung, so dass Krisenantizipation, Anpassung, Regeneration von und Lernen aus der Krise immer wichtiger für eine erfolgreiche Lebens- und Arbeitsgestaltung werden. Diese Krisenkompetenz heißt Resilienz. [...] 

Contents
Ganzheitliche Ansätze individueller und organisationaler Resilienz - VUCA-Welt als Konstante zukünftiger Arbeitswelten.
Messung der Resilienzstärke von Individuen, Teams und Organisationen. [...] 

Fields of Interest
Industrial and Organizational Psychology; Consulting, Supervision and Coaching; Health Psychology
The Function of Emotions
When and Why Emotions Help Us
H. C. Lench (Ed)

- Integrates findings across disciplines to present a new perspective on how and when emotions benefit people
- Brings together experts on specific emotions to address the functions of emotion for goal attainment and relationships
- Potential to transform the field by connecting to a broader audience interested in emotion and presenting information about emotions in an accessible format

This eye-opening text brings together research from behavioral science, neuroscience, and other fields to make a cogent case for emotions acting as a practical framework for living our lives. A dozen basic emotions are analyzed in terms of what causes them, how they change thoughts and behaviors, and the functional value of these responses. [...]
Consumer Psychology
A Life Span Developmental Approach
B. M. Young

- Introduces a new perspective on consumer psychology
- Takes a lifespan developmental approach to consumption behaviour
- Discusses how different life stages influence our relationship to the things we purchase and own

This book approaches consumer psychology from a unique perspective - it covers the entire lifespan, from birth to old age. Childhood and youth are not discussed as areas special, different and remote from the rest of consumer research but are integrated into our development as humans. [...] 

Contents
Chapter 1: Definitions and visions of consumption.- Chapter 2: Concepts and themes.- Chapter 3: How consumers’ minds work: An introduction to the basics.- Chapter 4: How we process information: A [...] 

Fields of Interest
Industrial and Organizational Psychology; Developmental Psychology; Consumer Behavior; Self and Identity

August 2018
XII, 354 p. Hardcover.
148 x 210 mm
£ 64.99 | € 74.99 | $ 89.99
ISBN 978-3-319-90910-3

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