

AMBIENTE E ENERGIA / ENVIRONMENT AND ENERGY**Ecologia / Ecology**

Quevauviller P.

Water System Science and Policy Interfacing

ril. 9781847558619 Lst 120 pagg. 462;

Royal Society of Chemistry RSC (20/11/2009)

Ecologia / Ecology

Recent discussions among scientists and policy-makers have highlighted that knowledge generated by many research and demonstration projects is not reaching policymakers in an efficient way. Conversely, the consideration of research results by the policy making community is not straightforward, and difficulties arise in integrating the latest research developments in legislation. An increasing number of experts consider that improvements could be achieved through the development of a "science-policy interface" so that R&D results are synthesised in a way to efficiently feed policy implementation. This book examines the issue of integrating science into policy, with an emphasis on water system knowledge. This timely book will be of great interest to scientists, water managers and stakeholders

ARCHITETTURA / ARCHITECTURE

Urbanistica



Bayer M.

Becoming an Urban Planner: A Guide to Careers in Planning and Urban Design

br. 9780470278635 pagg. 336;

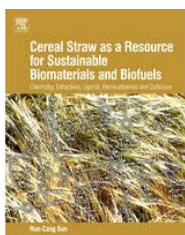
Wiley (01/02/2010)

Urbanistica

Here is a completely up-to-date guide to today's careers in urban planning—a clear and concise survey of the urban planning field and advice for navigating a successful career. Filled with interviews and guidance from leading urban planners, it covers everything from educational requirements to planning specialties and the many directions in which a career in urban planning can go

CHIMICA / CHEMISTRY

Biotecnologia / Biotechnology



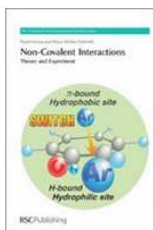
Sun R.

Cereal Straw as a Resource for Sustainable Biomaterials and Biofuels: Chemistry, Extractives, Lignins, Hemicelluloses and Cellulose

ril. 9780444532343 Lst 165 pagg. 300;
Elsevier Science Publishers (01/02/2010)
Biotecnologia / Biotechnology

The first book to examine straw chemistry in its entirety, "Cereal Straws" describes the recent development of techniques for fractionation of and conversion to environmental friendly materials. Balanced coverage of theory and applications includes: the analysis of straw structure and its components; extractives, from isolation to structural characterization; isolation, modification, and purification of hemicelluloses; the occurrence, structure, and chemical modification of cellulose; straw lignins, including their occurrence, structure and constitution, isolation and heterogeneity, and physico-chemical properties; and, utilization of straw and straw components after chemical modification. It provides the basics of straw composition and the structure of its cell walls. It details the procedures required to fractionate straw components to produce chemical derivatives from straw cellulose, hemicelluloses, and lignins. It elucidates new techniques for the production of biodegradable materials for the energy sector, chemical industry, and pulp and paper business

Chimica / Chemistry

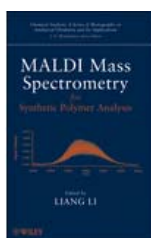


Non-cValent Interactions: Theory and Experiment

ril. 9781847558534 Lst 79,95 pagg. 238;
Royal Society of Chemistry RSC (18/11/2009)
Chimica / Chemistry

This book aims to understand the main aspects of non-covalent chemistry (mainly in the gas phase) and specifically compares the experimental and theoretical data available for non-covalent complexes and subsequent problems associated with this comparison. The book is authored by an experimentalist (KMD) and theorist (PH), and their main philosophy in writing together is that any book on non-covalent interactions cannot be limited either to theory or experiment. Both approaches are nowadays so closely connected that one cannot exist without the other and vice versa and their mutual connection provides the consistent description of non-covalent processes in our world. This book will be of great assistance to researchers engaged in both theoretical and experimental aspects of non-covalent bonding and in macro- and supermolecular chemistry.

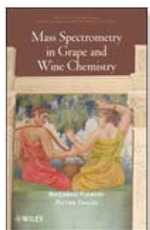
Chimica Analitica / Analytic Chemistry



MALDI Mass Spectrometry for Synthetic Polymer Analysis

ril. 9780471775799 Lst 60,50 pagg. 331;
Wiley (01/01/2010)
Chimica Analitica / Analytic Chemistry

Principles and Practices of Polymer Mass Spectrometry helps readers acquire the skills necessary for selecting the optimal methods, handling samples, analyzing the data, and interpreting the results of the mass spectrometry of polymers. This guide describes the principles of polymer MS and best practices in polymer characterization. It discusses different approaches, including MALDI, ESI, TOF MS, and FT-MS. It provides a guide to developing appropriate sample preparation protocols for different polymers.



Flamini R.

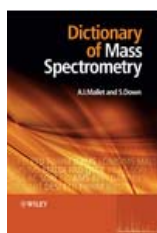
Mass Spectrometry in Grape and Wine Chemistry

ril. 9780470392478 Lst 66,95 pagg. 368;

Wiley (01/02/2010)

Chimica Analitica / Analytic Chemistry

To be able to estimate the potentiality of grapes and how it may be transferred into wine is key to grasping enological chemistry. Nowadays, mass spectrometry is a crucial aspect in ensuring the production, the quality, and the safety of grape, wine, and grape derivative products. Mass Spectrometry in Grape and Wine Chemistry examines in depth the relationship between the high structural identification power of mass spectrometry techniques and the chemistry of grapes and wine



Mallet A.

Dictionary of Mass Spectrometry

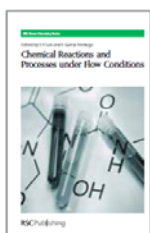
br. 9780470027615 Lst 29,95 pagg. 184;

Wiley (01/12/2009)

Chimica Analitica / Analytic Chemistry

The past decade has seen huge advances in the types and applications of mass spectrometry in all areas of science. With this growth has come a bewildering array of names, technical terms and abbreviations, making it a challenge to keep up-to-date. This Dictionary is a starting point for all those new to the topic, as well as a useful reference on terminology for those already in the field. Fully illustrated in full colour, the Dictionary will aid scientists from all disciplines in becoming conversant in the language and terminology of mass spectrometry

Chimica Fisica / Physical Chemistry



Luis S.V.

Chemical Reactions and Processes Under Flow Conditions

ril. 9780854041923 Lst 90 pagg. 212;

Royal Society of Chemistry RSC (20/11/2009)

Chimica Fisica / Physical Chemistry -CHIMICA ORGANICA / ORGANIC CHEMISTRY

A new area is emerging in manufacturing chemical products and this comprehensive book summarises the latest trends in organic synthesis. It gives an insight into flow continuous processes, outlining the basic concepts and explaining the terminology of, and systems approach to, process design dealing with both homogeneous and heterogeneous catalysis and mini- or micro-reactors. The book is written by both organic chemists and engineers giving a multidisciplinary vision of the new tools and methodologies in this field. It is essential reading for organic chemists (in industry or academia) working alongside chemical engineers or who want to undertake chemical engineering projects. It will also be of interest for chemical engineers to see how basic engineering concepts are applied in modern organic chemistry

Chimica Industriale / Industrial Chemistry



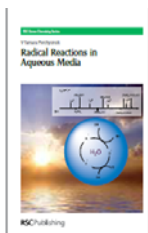
Kohli

**Developments in Surface Contamination and Cleaning - Methods for Removal of Particle Contaminants
Vol. 2**

ril. 9781437778304 Lst 144,99 pagg. 312;
William Andrew Publishing (15/11/2009)
Chimica Industriale / Industrial Chemistry

Rajiv Kohli and Kash Mittal have brought together the work of experts from different industry sectors and backgrounds to provide a state-of-the-art survey and best practice guidance for scientists and engineers engaged in surface cleaning or handling the consequences of surface contamination. Topics covered in its title include: a systems analysis approach to contamination control; physical factors that influence the behavior of particle deposition in enclosures; an overview of current yield models and description of advanced models; types of strippable coatings, their properties and applications of these coatings for removal of surface contaminants; in-depth coverage of ultrasonic cleaning; contamination and cleaning issues at the nanoscale; and, experimental results illustrating the impact of model parameters on the removal of particle contamination

Chimica Inorganica / Inorganic Chemistry



Perchyonok T.

Radical Reactions in Aqueous Media

ril. 9781849730006 Lst 70 pagg. 142;
Royal Society of Chemistry RSC (10/11/2009)
Chimica Inorganica / Inorganic Chemistry -CHIMICA ORGANICA / ORGANIC CHEMISTRY

Chemists are now moving away from volatile, environmentally harmful, and biologically incompatible organic solvents. With its low cost, ready availability, and capacity to remove environmentally unfriendly by-products, water is an obvious replacement. This book describes carbon-hydrogen bond formations in aqueous media via radical reactions with a specific focus on HAT (Hydrogen Atom Transfer). Suitable for students of chemistry, industrial chemists and academic researchers, it combines extensive knowledge of free radical chemistry with the latest innovations and creative applications. Divided into five main areas, it covers the: generation of carbon centred free radicals; radical initiators; solubility of substrate; suitability of free radical hydrogen donors, and HAT reactions in aqueous media



Procter

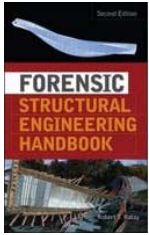
Organic Synthesis Using Samarium Diodide: A Practical Guide

ril. 9781847551108 Lst 94,99 pagg. 214;
Royal Society of Chemistry RSC (10/11/2009)
Chimica Inorganica / Inorganic Chemistry -CHIMICA ORGANICA / ORGANIC CHEMISTRY

This book adopts an "all you need to know" approach to the chemistry of the versatile lanthanide reagent, samarium diiodide. The authors have distilled the extensive primary literature into a concise, practical guide that allows the reader to quickly grasp an understanding of the reagent and its uses. The book covers: the best methods for preparation and handling; how solvents, co-solvents and additives alter reactivity; the basic mechanisms of reactions; common transformations; applications in target synthesis, and emerging areas in samarium diiodide chemistry. It contains illustrative practical procedures, up to date literature references, illustrations and chemical schemes

INGEGNERIA / ENGINEERING

Ingegneria / Engineering



Ratay R.T.

Forensic Structural Engineering Handbook 2/e

ril. 9780071498845 Lst 89,99 pagg. 688;

McGraw Hill (01/01/2010)

Ingegneria / Engineering

This is a thorough, up-to-date resource on structural investigation and expert witness delivery. The investigation of structural and construction failures is a segment of engineering that has come into its own after 9/11, Hurricane Katrina, and other high profile disasters in the U.S. and abroad. Fully revised, "Forensic Structural Engineering, Second Edition" includes information on how engineers become proficient on the subject; procedures, codes and standards; dealing with clients; critical characteristics of structures; common deficiencies and failures, and more. Written by a leading expert in the field, this handbook contains updated and expanded information on material specific forensics including steel, concrete, masonry, timber, foundations, and the building envelope. Appropriate codes, standards, and regulations as well as customary U.S. and SI units, are included throughout

Ingegneria Chimica / Chemical Engineering



Advances in structural adhesive bonding

ril. 9781845694357 Lst 155 pagg. 560;

Woodhead Publishing Ltd (01/02/2010)

Ingegneria Chimica / Chemical Engineering

Adhesive bonding is often a cost effective, effective, and often necessary way to join mechanical structures. This important book reviews the most recent improvements in adhesive bonding and their wide-ranging potential in structural engineering. Part one reviews advances in the most commonly used groups of structural adhesives with chapters covering topics such as epoxy, polyurethane, silicone, cyanoacrylate, and acrylic adhesives. The second set of chapters covers the various types of adherends and pre-treatment methods for a range of structural materials such as metals, composites and plastics. Chapters in Part three analyse methods and techniques with topics on joint design, life prediction, fracture mechanics and testing. The final group of chapters gives useful and practical insights into the problems and solutions of adhesive bonding in a variety of hostile environments such as chemical, wet and extreme temperatures

Ingegneria Civile / Civil Engineering



Aouad G.

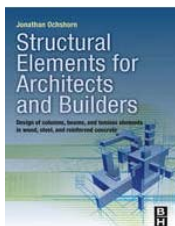
Requirements Engineering for Computer Integrated Environments in Construction

ril. 9781405189453 Lst 79,50 pagg. 256;

Wiley-Blackwell (01/01/2010)

Ingegneria Civile / Civil Engineering

Efficient communication, collaboration, data exchange and sharing are crucial for the success of today's many multi-disciplinary and interdisciplinary work environments. The implementation of computer integrated environments (CIE) is increasing and the requirements engineering necessary for the development of these systems is critical. Requirements Engineering for Computer Integrated Environments in Construction provides an important source of information and advice for organizations needing bridge the gap between users and developers in the implementation of computer integrated solutions as well as for consultants providing services to their clients in CIE development



Ochshorn J.

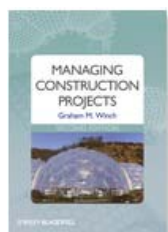
Structural Elements for Architects and Builders: Design of Columns, Beams, and Tension Elements in Wood, Steel, and Reinforced Concrete

ril. 9781856177719 Lst 59,99 pagg. 400;

Butterworth Heinemann (03/12/2009)

Ingegneria Civile / Civil Engineering

Concise but comprehensive, "Structural Elements for Architects and Builders" is primarily focused on the design and analysis of structural elements: columns, beams, tension members and their connections. The material is organized into a single, self-sufficient volume, including all necessary data for the preliminary design and analysis of these structural elements in wood, steel, and reinforced concrete. Every chapter contains insights developed by the author and generally not found elsewhere. Additionally, the Appendices included at the end of the text contain numerous tables and graphs, based on material contained in industry publications, but reorganized and formatted especially for this text to improve clarity and simplicity, without sacrificing comprehensiveness



Winch G.M.

Managing Construction Projects, 2nd Edition

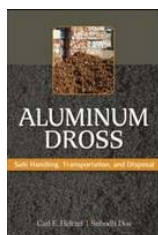
br. 9781405184571 Lst 39,99 pagg. 544;

Wiley-Blackwell (01/12/2009)

Ingegneria Civile / Civil Engineering

Drawing on a wide range of research, Managing Construction Projects proposes new ways of thinking about project management in construction, exploring the skills required to manage uncertainty and offering techniques for thinking about the challenges involved. The second edition takes the information processing perspective introduced in the first edition and develops it further. In particular, this approach deepens the reader's understanding of the dynamics in the construction project process – from the value proposition inherent in the project mission, to the functioning asset that generates value for its owners and users.

Ingegneria Dei Materiali / Materials Engineering



Heltzel C.

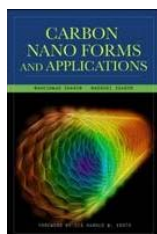
Aluminum Dross: Safe Handling, Transportation, and Disposal

ril. 9780071608688 Lst 104,99 pagg. 256;

McGraw Hill (01/03/2010)

Ingegneria Dei Materiali / Materials Engineering

This is a comprehensive compendium to the safe handling, transport, and disposal of aluminum dross, a potentially dangerous by-product of the aluminum industry. When this material comes into contact with water, tremendous amounts of hydrogen gas and ammonia are produced. This authoritative volume addresses the subject of proper handling and disposal of Al dross to prevent landfill disasters, such as underground fires. Additional information is offered on recovery of hydrogen as a source of renewable energy



Sharon M.

Carbon Nano Forms and Applications

ril. 9780071639606 Lst 104,99 pagg. 544;

McGraw Hill (01/11/2009)

Ingegneria Dei Materiali / Materials Engineering

This title offers an in-depth look at the unique properties and potential applications of carbon nano materials. Beginning with a description of various forms of carbon nano materials (CNM), this book addresses the need to develop a new classification of carbon. After the fundamental physics are discussed, CNM synthesis and applications are covered. Special emphasis is given to fuel cell, supercapacitor, hydrogen storage, microwave absorption, electron field emission, and biosystems applications. "Carbon Nano Forms and Applications" is an essential resource for material engineers, chemists, and physicists whose research focuses on carbon nano materials, including carbon nanotubes, carbon nanoantennas, and carbon nanowires. The book is also beneficial for those researchers using carbon material for next-generation technologies, such as quantum computing, solar cell, and nanomedicine



Uddin N.

Blast Protection of Civil Infrastructures and Vehicles Using Composites

ril. 9781845693992 Lst 150 pagg. 448;
Woodhead Publishing Ltd (01/02/2010)
Ingegneria Dei Materiali / Materials Engineering

With the upsurge in terrorism in recent years and the possibility of accidental blast threats, there is growing interest in manufacturing blast 'hardened' structures and retrofitting blast mitigation materials to existing structures. Composites provide the ideal material for blast protection as they can be engineered to give different levels of protection by varying the reinforcements and matrices.

Ingegneria Dei Trasporti / Transportation Engineering



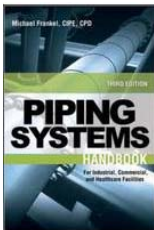
Wang X.

Vehicle Noise and Vibration Refinement

ril. 9781845694975 Lst 150 pagg. 448;
Woodhead Publishing Ltd (01/02/2010)
Ingegneria Dei Trasporti / Transportation Engineering

Vehicle noise and vibration refinement provides a review of noise and vibration refinement principles, methods, advanced experimental and modelling techniques and palliative treatments necessary in the process of vehicle design, development and integration in order to meet noise and vibration standards. Case studies from the collective experience of specialists working for major automotive companies are included to form an important reference for engineers practising in the motor industry who seek to overcome the technological challenges faced in developing quieter, more comfortable cars.

Ingegneria Edile / Building Engineering



Frankel M.L.

Piping Systems Handbook: For Industrial, Commercial, and Healthcare Facilities

ril. 9780071597210 Lst 104,99 pagg. 1040;
McGraw Hill (01/12/2009)
Ingegneria Edile / Building Engineering

This is a complete guide to piping systems. This is a practical design tool for engineers and plumbing system designers who need up-to-date information and codes on facility piping systems with a multitude of industry, commercial, and institutional applications. This comprehensive resource covers all utility piping, such as plumbing, steam, water, air, and vacuum systems. Architects, plant engineers, inspectors, journeymen, students, contractors, builders, and all those associated with the construction industry will find this an invaluable resource.



Tamboli A.R.

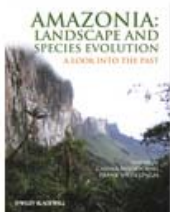
Handbook of Steel Connection Design and Details 2/e

ril. 9780071550055 Lst 64,99 pagg. 656;
McGraw Hill (01/11/2009)
Ingegneria Edile / Building Engineering

Fully updated with the latest AISC and ICC codes and specifications, Handbook of Structural Steel Connection Design and Details, Second Edition, is the most comprehensive resource on load and resistance factor design (LRFD) available. This authoritative volume surveys the leading methods for connecting structural steel components, covering state-of-the-art techniques and materials, and includes new information on welding and connections. Hundreds of detailed examples, photographs, and illustrations are found throughout this practical handbook

SCIENZA DELLA TERRA /EARTH SCIENCE

Ambiente / Environment



Hoorn C.

Amazonia, Landscape and Species Evolution: A Look into the Past

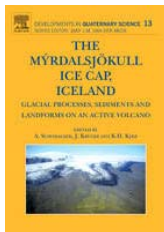
ril. 9781405181136 Lst 95 pagg. 464;

Wiley-Blackwell (01/01/2010)

Ambiente / Environment

This book focuses on geological history as the critical factor in determining the present biodiversity and landscapes of Amazonia. We explore the different driving mechanisms for landscape evolution by reviewing the history of the Amazonian Craton, the associated sedimentary basins, and the role of mountain uplift and climate change. Throughout the book we provide an insight into the Meso- and Cenozoic record of Amazonia that was characterized by fluvial and long-lived lake systems and a highly diverse flora and fauna. This fauna includes giants such as the ca. 12 m long caiman *Purussaurus*, but also a varied fish fauna and fragile molluscs, whilst fossil pollen and spores form relics of ancestral swamps and rainforests. Finally, we review the molecular datasets of the modern Amazonian rainforest and aquatic biota, and discuss the possible relations between the origin of Amazonian species diversity and the palaeogeographic, palaeoclimatic and palaeoenvironmental evolution of northern South America

Geologia / Geology



Schomacker A.

The Myrdalsjokull Ice Cap, Iceland: Glacial Processes, Sediments and Landforms on an Active Volcano

ril. 9780444530455 Lst 126,99 pagg. 224;

Elsevier Science Publishers (19/10/2009)

Geologia / Geology

Existing lowland ice caps are usually considered the best analogues for formerly glaciated areas and as such Icelandic glaciers have been intensively investigated with regard to process-orientated sediment-landform interrelationships. Much work has been directed towards understanding the interaction between volcanic activity and glacier response i.e. water outbursts - jökulhlups and sudden events of rapid flowing glacier ice, i.e. surges. The Myrdalsjokull ice cap has served as an excellent 'ice-age' laboratory and publications are found in all major peer-reviewed journals. The Myrdalsjokull ice cap is located in south central Iceland and covers some 600 km² and is centered over a large caldera hosting the Katla central volcano that encircles an area of 100 km². Eruptions from the Katla volcanic system occur on average twice a century and belong to the most violent geological events observed associated with an enormous outburst of water with strong influence on the ice cap and surrounding areas.

Metereologia / Metereology



Roggema R.

Adaptation to Climate Change: A Spatial Challenge

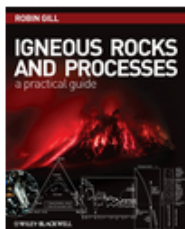
ril. 9781402093586 99,95 pagg. 250;

Springer Verlag (01/11/2009)

Metereologia / Metereology

As it becomes clear that climate change is not easily within the boundaries of the 1990's, society needs to be prepared and needs to anticipate future changes due to the uncertain changes in climate. So far, extensive research has been carried out on several issues including the coastal defence or shifting ecozones. However, the role spatial design and planning can play in adapting to climate change has not yet been focussed on. This book illuminates the way adaptation to climate change is tackled in water management, ecology, coastal defence, the urban environment and energy

Mineralogia / Mineralogy



Gill R.

Igneous Rocks and Processes

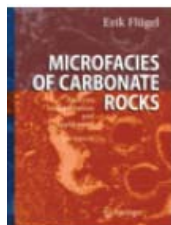
br. 9780632063772 Lst 34,95 pagg. 440;

Wiley-Blackwell (01/01/2010)

Mineralogia / Mineralogy -GEOLOGIA / GEOLOGY

This book is for geoscience students taking introductory or intermediate-level courses in igneous petrology, and helps them develop key skills (and confidence) in identifying igneous minerals, and in interpreting - and allocating appropriate names to - unknown rocks presented to them. The book thus serves, uniquely, both as a conventional course text and as a practical laboratory manual. Following an introduction reviewing igneous nomenclature, each chapter addresses a specific compositional category of magmatic rocks, covering definition, mineralogy, eruption/ emplacement processes, textures and crystallization processes, geotectonic distribution, geochemistry, and aspects of magma genesis. One chapter is devoted to phase equilibrium experiments and magma evolution; another introduces pyroclastic volcanology

Scienza Della Terra /Earth Science



Flügel E

Microfacies of Carbonate Rocks Analysis, Interpretation and Application 2/e

ril. 9783642037955 Eur 129,95 pagg. 549;

Springer Verlag (01/11/2009)

Scienza Della Terra /Earth Science

The book brings together the methods used in microfacies analysis and details the potential of microfacies in evaluating depositional environments and diagenetic history, and, in particular, applying microfacies data in the study of carbonate hydrocarbon reservoirs and the provenance of archaeological materials. The first part of the book introduces microfacies analysis: the second part deals with the interpretation of the microfacial data; and the third part explores the practical use of microfacies

SCIENZE FISICO-MATEMATICHE / MATHEMATICS AND

Fisica / Physics



Ibach H.

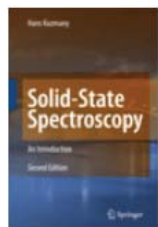
Solid-State Physics An Introduction to Principles of Materials Science 4/e

ril. 9783540938033 Eur 49,95 pagg. 536;

Springer Verlag (01/11/2009)

Fisica / Physics

This new edition of the popular introduction to solid state physics provides a comprehensive overview on basic theoretical and experimental concepts of material science. Additional sections emphasize current topics in solid-state physics. Notably, sections on important devices, aspects of non-periodic structures of matter, phase transitions, defects, superconductors and nanostructures have been added, the chapters presenting semi- and superconductivity had been completely updated. Students will benefit significantly from solving the exercises given at the end of each chapter



Kuzmany H.

Solid-State Spectroscopy - An Introduction 2/e

ril. 9783642014789 Eur 79,95 pagg. 554;

Springer Verlag (01/11/2009)

Fisica / Physics

Spectroscopic methods have opened up a new horizon in our knowledge of solid-state materials. Numerous techniques using electromagnetic radiation or charged and neutral particles have been invented and worked out to a high level in order to provide more detailed information on the solids



Stacey W.M.

Fusion: An Introduction to the Physics and Technology of Magnetic Confinement Fusion, 2/e

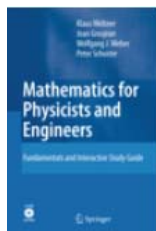
br. 9783527409679 Lst 80 pagg. 272;

Wiley-Vch (01/02/2010)

Fisica / Physics

This second edition of a popular textbook is thoroughly revised with around 25% new and updated content. It provides an introduction to both plasma physics and fusion technology at a level that can be understood by advanced undergraduates and graduate students in the physical sciences and related engineering disciplines.

As such, the contents cover various plasma confinement concepts, the support technologies needed to confine the plasma, and the designs of ITER as well as future fusion reactors. With end of chapter problems for use in courses



Weltner K.

Mathematics for Physicists and Engineers Fundamentals and Interactive Study Guide 4/e

ril. 9783642001727 Eur 69,95 pagg. 588;

Springer Verlag (01/11/2009)

Fisica / Physics

Mathematics is the basic language in physics and engineering. It is an essential tool which first and second year students have to master as soon as possible. A lack of competence in mathematics is the main reason for failure and drop out in the beginning periods of study. This textbook offers an accessible and highly approved approach which is characterised by the combination of the textbook with a detailed study guide on an accompanying CD.

Matematica / Mathematics



Anderson G.W.

An Introduction to Random Matrices

Series: *Cambridge Studies in Advanced Mathematics*

9780521194525 Lst 40 pagg. 506;

Cambridge U.P. (01/12/2009)

Matematica / Mathematics

The theory of random matrices plays an important role in many areas of pure mathematics and employs a variety of sophisticated mathematical tools (analytical, probabilistic and combinatorial). This diverse array of tools, while attesting to the vitality of the field, presents several formidable obstacles to the newcomer, and even the expert probabilist. This rigorous introduction to the basic theory is sufficiently self-contained to be accessible to graduate students in mathematics or related sciences, who have mastered probability theory at the graduate level, but have not necessarily been exposed to advanced notions of functional analysis, algebra or geometry



Berstel J.

Codes and Automata

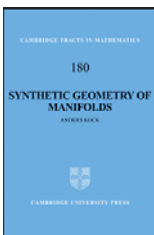
Series: *Encyclopedia of Mathematics and its Applications*

ril. 9780521888318 Lst 75 pagg. 634;

Cambridge U.P. (01/11/2009)

Matematica / Mathematics

This major revision of Berstel and Perrin's classic Theory of Codes has been rewritten with a more modern focus and a much broader coverage of the subject. The concept of unambiguous automata, which is intimately linked with that of codes, now plays a significant role throughout the book, reflecting developments of the last 20 years. This is complemented by a discussion of the connection between codes and automata, and new material from the field of symbolic dynamics. The authors have also explored links with more practical applications, including data compression and cryptography.



Kock A.

Synthetic Geometry of Manifolds

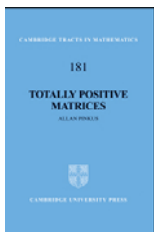
Series: *Cambridge Tracts in Mathematics*

ril. 9780521116732 Lst 50 pagg. 312;

Cambridge U.P. (01/12/2009)

Matematica / Mathematics

This elegant book is sure to become the standard introduction to synthetic differential geometry. It deals with some classical spaces in differential geometry, namely 'prolongation spaces' or neighbourhoods of the diagonal. These spaces enable a natural description of some of the basic constructions in local differential geometry and, in fact, form an inviting gateway to differential geometry, and also to some differential-geometric notions that exist in algebraic geometry. The presentation conveys the real strength of this approach to differential geometry.



Pinkus

Totally Positive Matrices

Series: *Cambridge Tracts in Mathematics*

ISBN 9780521194082 Euro Lst 40 pagg. 194;

Cambridge U.P. (01/12/2009)

Matematica / Mathematics

Totally positive matrices constitute a particular class of matrices, the study of which was initiated by analysts because of its many applications in diverse areas. This modern account of the subject is comprehensive and thorough, with careful treatment of the central properties of totally positive matrices, full proofs and a complete bibliography. The history of the subject is also described: in particular, the book ends with a tribute to the four people who have made the most notable contributions to the history of total positivity: I. J. Schoenberg, M. G. Krein, F. R. Gantmacher and S. Karlin



Tao T.

Additive Combinatorics

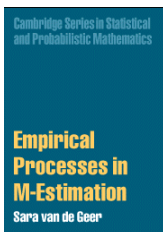
Series: *Cambridge Studies in Advanced Mathematics*

br. 9780521136563 Lst 28 pagg. 536;

Cambridge U.P. (01/12/2009)

Matematica / Mathematics

Additive combinatorics is the theory of counting additive structures in sets. This theory has seen exciting developments and dramatic changes in direction in recent years thanks to its connections with areas such as number theory, ergodic theory and graph theory. This graduate level text will allow students and researchers easy entry into this fascinating field. Here, for the first time, the authors bring together in a self-contained and systematic manner the many different tools and ideas that are used in the modern theory, presenting them in an accessible, coherent, and intuitively clear manner, and providing immediate applications to problems in additive combinatorics



van de Geer

Empirical Processes in M-Estimation

br. 9780521123259 Lst 21,99 pagg. 300;

Cambridge U.P. (01/12/2009)

Matematica / Mathematics

The theory of empirical processes provides valuable tools for the development of asymptotic theory in (nonparametric) statistical models, and makes possible the unified treatment of a number of them. This book reveals the relation between the asymptotic behaviour of M-estimators and the complexity of parameter space. Virtually all results are proved using only elementary ideas developed within the book; there is minimal recourse to abstract theoretical results. To make the results concrete, a detailed treatment is presented for two important examples of M-estimation, namely maximum likelihood and least squares



Zomorodian

Topology for Computing

Series: *Cambridge Monographs on Applied and Computational Mathematics*

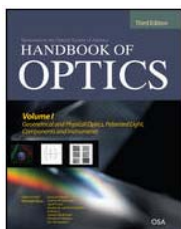
br. 9780521136099 Lst 24,99 pagg. 258;

Cambridge U.P. (01/12/2009)

Matematica / Mathematics

The emerging field of computational topology utilizes theory from topology and the power of computing to solve problems in diverse fields. Recent applications include computer graphics, computer-aided design (CAD), and structural biology, all of which involve understanding the intrinsic shape of some real or abstract space. A primary goal of this book is to present basic concepts from topology and Morse theory to enable a non-specialist to grasp and participate in current research in computational topology

Ottica / Optics



Bass M.

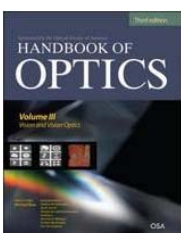
Handbook of Optics Volume I: Geometrical and Physical Optics, Polarized Light, Components and Instruments 3/e

ril. 9780071498890 Lst 104,99 pagg. 1248;

McGraw Hill (01/11/2009)

Ottica / Optics

This is the most authoritative and complete collection of optics data, techniques, and applications - fully revised and updated. Prepared under the auspices of the Optical Society of America, the world's largest professional optics society, the five carefully architected and cross-referenced volumes of the "Handbook of Optics" contain everything a student, scientist, or engineer requires to actively work in the field. From the design of complex optical systems to world-class research and development techniques, this definitive work provides unparalleled access to the fundamentals of the discipline and its greatest minds. Individual chapters are written by the biggest names in optics from around the world who explain, illustrate, and solve the entire field of optics. Each volume contains a complete chapter listing for the entire Handbook, extensive chapter glossaries, and a wealth of references in every chapter. This is the only optics resource of its kind. Volume I covers geometrical and physical optics, polarized light, components, and instruments



Bass M.

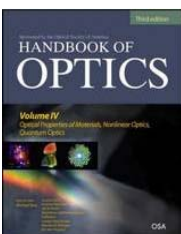
Handbook of Optics: v. 3: Vision and Vision Optics - 3/e

ril. 9780071498913 Lst 119,99 pagg. 1100;

McGraw Hill (01/01/2010)

Ottica / Optics

This is the most authoritative and complete collection of optics data, techniques, and applications - fully revised and updated. Prepared under the auspices of the Optical Society of America, the world's largest professional optics society, the five carefully architected and cross-referenced volumes of the "Handbook of Optics" contain everything a student, scientist, or engineer requires to actively work in the field. From the design of complex optical systems to world-class research and development techniques, this definitive work provides unparalleled access to the fundamentals of the discipline and its greatest minds. Individual chapters are written by the biggest names in optics from around the world who explain, illustrate, and solve the entire field of optics. Each volume contains a complete chapter listing for the entire Handbook, extensive chapter glossaries, and a wealth of references in every chapter. This is the only optics resource of its kind. Volume III is in full-color throughout, and covers vision and vision optics



Bass M.

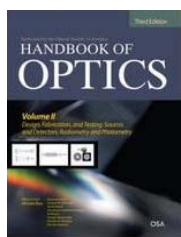
Handbook of Optics: Volume 4 - 3/e

ril. 9780071498920 Lst 89,99 pagg. 1152;

McGraw Hill (01/12/2009)

Ottica / Optics

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Bass M.

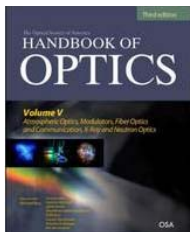
Handbook of Optics: v. 2: Design, Fabrication and Testing, Sources and Detectors, Radiometry and Photometry 3/e

ril. 9780071498906 Lst 104,99 pagg. 1264;

McGraw Hill (15/10/2009)

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Bass M.

Handbook of Optics: v. 5: Atmospheric Optics, Modulators, Fiber Optics, X-ray and Neutron Optics 3/e

ril. 978007163313 Lst 89.99 pagg. 1280;

McGraw Hill (01/12/2009)

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