

AGRICOLTURA / AGRICULTURE

Malattie Delle Piante / Plant Diseases



Hu J.

Genetics, Genomics and Breeding of Sunflower

ril. 9781578086764 Lst 61 pagg. 360;

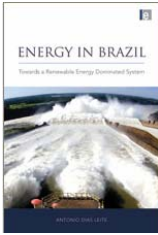
Science Publishers (01/02/2010)

Malattie Delle Piante / Plant Diseases

The sunflower has fascinated mankind for centuries. The oilseed sunflower contributes approximately 10% of the world's plant-derived edible oil and the confection type sunflower holds a considerable share of the directly consumed snacks market. In addition, sunflower is also grown as an ornamental for cut flowers, as well as in home gardens. We are now embarking on the age of genomics which will expedite the process of genetic improvement of crops. There has been an explosion of information on genetic markers, DNA sequences, and genomic resources for most major food crops including sunflower. This volume is intended to bridge traditional research with modern molecular investigations on sunflower

AMBIENTE E ENERGIA / ENVIRONMENT AND ENERGY

Ambiente E Energia / Environment And Energy



Dias Leite A.

Energy in Brazil -Towards a Renewable Energy Dominated System

ril. 9781844078479 Lst 95 pagg. 256;

Earthscan Ltd. (15/09/2009)

Ambiente E Energia / Environment And Energy

Rapidly developing countries such as China and India are the real main players in the climate debate, with the potential for massive increases in their carbon emissions in coming years. Brazil is often included in their number, yet this country is in fact notable for its exceptionally high reliance on energy from renewable sources - approaching 50%. However, the fact that much of this energy comes from hydropower and biofuels, and recent discoveries of massive oil reserves off of the Brazilian coast, are a recipe for controversy

ARCHITETTURA / ARCHITECTURE

Architettura / Architecture



Zaretsky M.

Precedents in Zero-energy Design - Architecture and Passive Design in the 2007 Solar Decathlon

ril. 9780415778749 Lst 85 br. 9780415778756 Lst 24,99 pagg. 240;

Routledge (Taylor & Francis) (24/09/2009)

Architettura / Architecture

The world is currently facing an environmental crisis and as anyone interested in sustainable or zero-energy design knows the design and building industries have the potential to significantly reduce greenhouse gas emissions across the globe. The Solar Decathlon is an international event in which universities from around the world compete in the design and construction of a one-bedroom, zero-energy house. This book provides an in-depth, yet accessible analysis of the architecture and passive design strategies of the houses in the 2007 Solar Decathlon. These houses are the result of thousands of hours of research and development from twenty universities around the world

Costruzione Architettonica



Attmann O.

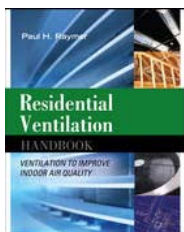
Green Architecture: Advanced Technologies and Materials

ril. 9780071625012 Lst 59,99 pagg. 400;

McGraw Hill (01/12/2009)

Costruzione Architettonica

This is a GreenSource guide to sustainable architecture. This new GreenSource book includes information on green technologies and materials needed to design and construct energy-efficient, environmentally friendly, and sustainable buildings. "Green Architecture" surveys and illustrates new developments, innovative techniques, and advanced technologies that will help restore the balance between the user and the natural environment. The book aids architects in understanding the engineering side of the design process. U.S. and international case studies are included



Raymer P.

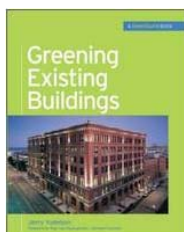
Residential Ventilation Handbook: Ventilation to Improve Indoor Air Quality

Lst 49,99 br. 9780071621281 pagg. 384;

McGraw Hill (01/12/2009)

Costruzione Architettonica

Ventilation is a critical component for building durability and occupant health. Residential Ventilation Handbook gives you the information you need to select and install the appropriate ventilation system for any home. This practical resource covers the latest codes and standards, including the International Mechanical Code (IMC), International Residential Code (IRC), and ASHRAE-62-2 ("Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings") requirements, as well as green building guidelines. Ideal as an on-the-job reference and troubleshooting manual, this is an essential guide for novices and experienced contractors alike



Yudelson J.

Greening Existing Buildings

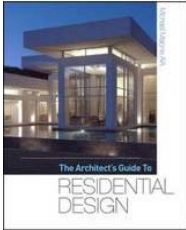
ril. 9780071638326 Lst 59,99 pagg. 336;

McGraw Hill (01/12/2009)

Costruzione Architettonica

This is a practical reference for building owners, developers, and facility managers. This new GreenSource book explains how to transform existing buildings into more energy-efficient green buildings on conventional budgets. You can follow the process, step-by-step, through each phase of project design, construction, and operations. "Greening Existing Buildings" features proven technologies and design methods, and shows you how to select and work with design and construction professionals in a cost-effective, mutually supportive way. The book highlights ten best practices for greening existing buildings, and includes 20 U.S. and international case studies of successful implementations. The hard costs associated with efficiency upgrades and materials choices are also discussed

Pianificazione Territoriale



Malone M.

The Architect's Guide to Residential Design

ril. 9780071605632 Lst 39,99 pagg. 256;

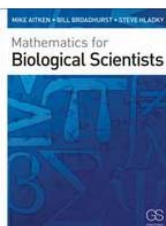
McGraw Hill (01/12/2009)

Pianificazione Territoriale

This is a practical guide to residential design for architects. Architects whose day-to-day work involves designing institutional and commercial spaces will learn how to transfer and expand their skills and successfully integrate residential design into their practices. "The Architect's Guide to Residential Design" covers typical residential design budgets and construction schedules and offers guidelines for interacting with design-conscious clients/homeowners. The book presents a comprehensive methodology for the process of designing, pricing, and constructing homes. Domestic and international case studies are included

CHIMICA / CHEMISTRY

Biochimica / Biochemistry

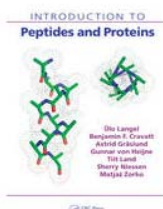


Aitken M.

Mathematics for Biological Scientists

br. 9780815341369 Lst 32 pagg. 450;
Garland Science (30/09/2009)
Biochimica / Biochemistry

"Mathematics for Biological Scientists" is a new undergraduate textbook which covers the mathematics necessary for biology students to understand, interpret and discuss biological questions. The book's twelve chapters are organized into four themes. The first theme covers the basic concepts of mathematics in biology, discussing the mathematics used in biological quantities, processes and structures. The second theme, calculus, extends the language of mathematics to describe change. The third theme is probability and statistics, where the uncertainty and variation encountered in real biological data is described. The fourth theme is explored briefly in the final chapter of the book, which is to show how the 'tools' developed in the first few chapters are used within biology to develop models of biological processes. "Mathematics for Biological Scientists" fully integrates mathematics and biology with the use of colour illustrations and photographs to provide an engaging and informative approach to the subject of mathematics and statistics within biological science



Langel U.

Introduction to Peptides and Proteins

ril. 9781420064124 Lst 60,99 pagg. 420;
CRC Press (20/11/2009)
Biochimica / Biochemistry

Authored by key players in the field, this volume offers a relevant presentation of peptide and protein chemistry. It provides key insight into the fast-developing field of proteomics, including structural and functional aspects, biochip development, and clinical potential. The authors include chapters on bioinformatics and proteomics and present the latest information on concerns over protein degradation and the post-translational modifications of proteins and peptides. The book also includes a section on protein coupled diseases that presents increasing evidence of the impact of protein misfolding and various deviations in neurodegenerative diseases, and the role of proteins in cancer

Chimica Analitica / Analytic Chemistry



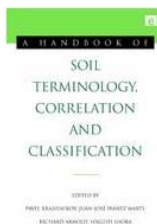
Cecchi T.

Ion-pair Chromatography and Related Techniques

ril. 9781439800966 Lst 82 pagg. 215;
CRC Press (19/10/2009)
Chimica Analitica / Analytic Chemistry

Ion-Pair Chromatography (IPC) is a rapidly evolving method for difficult analyses of organic and inorganic ions and ionogenic, neutral, and zwitterionic compounds. Providing a thorough exploration of the multiplicity of interactions involved in an IPC system, this book emphasizes the progress from theoretical modeling to application

Chimica Del Suolo / Soil Chemistry



Ibanez Marti J.J.

A Handbook of Soil Terminology, Correlation and Classification

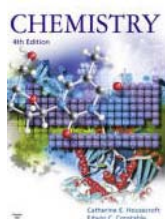
ril. 9781844076833 Lst 95 pagg. 352;

Earthscan Ltd. (01/10/2009)

Chimica Del Suolo / Soil Chemistry

Soil classification and terminology are fundamental issues for the clear understanding and communication of the subject. However, while there are many national soil classification systems, these do not directly correlate with each other. This leads to confusion and great difficulty in undertaking comparative scientific research that draws on more than one system and in making sense of international scientific papers using a system that is unfamiliar to the reader. This book aims to clarify this position by describing and comparing different systems and evaluating them in the context of the World Reference Base (WRB) for Soil Resources. The latter was set up to resolve these problems by creating an international "umbrella" system for soil correlation. All soil scientists should then classify soils using the WRB as well as their national systems. The book is a definitive and essential reference work for all students studying soils as part of life, earth or environmental sciences, as well as professional soil scientists.

Chimica Generale / General Chemistry



Housecroft C.E.

Chemistry 4/e

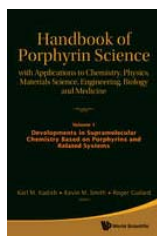
br. 9780273715450 Eur 68,95 pagg. 1544;

Prentice Hall (01/12/2009)

Chimica Generale / General Chemistry

Chemistry provides a robust coverage of the different branches of chemistry with unique depth in organic chemistry in an introductory text helping students to develop a solid understanding of chemical principles, how they interconnect and how they can be applied to our lives

Chimica Inorganica / Inorganic Chemistry



Kadish K.M.

HANDBOOK OF PORPHYRIN SCIENCE - With Applications to Chemistry, Physics, Materials Science, Engineering, Biology and Medicine - 5 vols set

Introductory Price £st 1.110 valid till May 31, 2010

ril. 9789814280167 Lst 1388 pagg. 2000;

World Scientific Publishing (01/05/2010)

Chimica Inorganica / Inorganic Chemistry

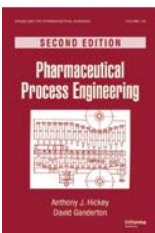
As porphyrins are currently employed as platforms for study of theoretical principles and applications in a wide variety of fields, the "Handbook of Porphyrin Science" represents a timely ongoing series dealing in detail with the synthesis, chemistry, physicochemical and medical properties and applications of polypyrrole macrocycles. Professors Karl Kadish, Kevin Smith and Roger Guilard are internationally recognized experts in the research field of porphyrins, each having his own separate area of expertise in the field. Between them, they have published over 1500 peer-reviewed papers and edited more than three dozen books on diverse topics of porphyrins and phthalocyanines. In assembling the new volumes of this unique Handbook, they have selected and attracted the very best scientists in each sub-discipline as contributing authors of the chapters. This Handbook will prove to be a modern authoritative treatise on the subject as it is a collection of up-to-date works by world-renowned experts in the field. Complete with hundreds of figures, tables and structural formulas, and thousands of literature citations, all researchers and graduate students in this field will find the "Handbook of Porphyrin Science" an essential, major reference source for many years to come

Farmacologia / Pharmacology



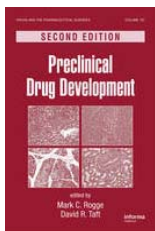
Bolton S.
Pharmaceutical Statistics: Practical and Clinical Applications, 5/e
Series: Drugs and Sciences the Pharmaceutical
ril. 9781420074222 Lst 150 pagg. 708;
Informa Healthcare (01/11/2009)
Farmacologia / Pharmacology

an expert on how to directly apply pharmaceutical statistics to scientific research and clinical evaluation. Written in an easy-to-read format and utilizing practical examples and solutions, this timely resource is a perfect guide for pharmaceutical scientists who need to report on clinical trials data. The "Fifth Edition" has been updated and expanded to provide the most complete and comprehensive guide to the various statistical applications and research issues in the pharmaceutical industry, particularly clinical trials and bioequivalence studies. Why every pharmaceutical researcher should own a copy of the "Fifth Edition": Stay current with the most recent industry information on the modern principles and practices in statistics. Logically determine sample size in bioequivalence and clinical trials, even for those with complicated designs. Gain FDA acceptance of post-approval manufacturing changes quicker and easier by way of the in vitro in vivo correlation technique in the drug development process. Fully analyze key concepts and text examples with the accompanying SAS and Excel-based programs that offer step-by-step guidance. Quickly and accurately evaluate pharmaceutical data using various regression techniques.



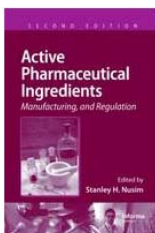
Hickey
Pharmaceutical Process Engineering 2/e
Series: Drugs and the Pharmaceutical Sciences
ril. 9781420084757 Lst 125 pagg. 288;
Informa Healthcare (01/10/2009)
Farmacologia / Pharmacology

A guide to basic engineering principles, practical aspects of drug production, and development processes for converting bulk pharmaceutical products into patient-ready dosage forms.



ROGGE M.
Preclinical Drug Development 2/e
Series: Drugs and Sciences the Pharmaceutical
ril. 9781420084726 Lst 175 pagg. 384;
Informa Healthcare (01/09/2009)
Farmacologia / Pharmacology

This latest edition gives clinical chemists, drug development scientists, biologists and researchers the tools they need to manage and improve all development and regulatory aspects of preclinical formulation and routes of administration. "Preclinical Drug Development, Second Edition" delivers the A to Z's of the latest industry trends and compliance guidelines in a ready reference format that every bench scientist needs to succeed. With case studies and simulation methods, it incorporates the latest findings of 14 expert contributing authors worldwide. Key features: REVISION OF A BESTSELLER - the "Second Edition" meets a critical need for pharmaceutical scientists to keep up-to-date with an actively changing and pivotal area of drug development.....



Stanley N.
Active Pharmaceutical Ingredients 2/e
Series: Drugs and Sciences the Pharmaceutical
ril. 9781439803363 Lst 150 pagg. 448;
Informa Healthcare (01/11/2009)
Farmacologia / Pharmacology

This "Second Edition" brings you up-to-date with the quality control regulations for APIs that have been added or amended since the first edition. These updates help ensure that pharmaceutical professionals and drug manufacturers meet the established and required guidelines set forth by the US and international regulatory industries. REVISION OF A BESTSELLER - provides updates on the quality control regulations for APIs that have been added or amended since the first edition to ensure that pharmaceutical professionals and drug manufacturers meet the established and required guidelines set forth by the US and international regulatory industries. NEW CHAPTERS - on safety, efficacy, and environmental/regulatory requirements keeps readers up-to-date with the latest in the field. EXPERT ANALYSIS - of the recent movement of API manufacturing from the US and Europe to countries such as India and China keeps pharmaceutical professionals and drug manufacturers aware of current and potential changes in regulations. DETAILED DISCUSSIONS - of both US and international regulatory requirements and the FDA's intensified foreign inspection program enables readers to adequately prepare for and pass inspections.

INFORMATICA / COMPUTER SCIENCE

Informatica / Computer Science



Stan Z.Li

Encyclopedia of Biometrics - 2 vols

ril. 9780387730028 Eur 414,96 pagg. 1419;

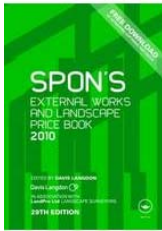
Springer Verlag (01/08/2009)

Informatica / Computer Science

Biometrics refers to automated methods of recognizing a person based on physiological or behavioral characteristics. The Encyclopedia of Biometrics provides a comprehensive reference to topics in Biometrics, including concepts, modalities, algorithms, devices, systems, security, performance testing, applications and standardization. With an A-Z format, the Encyclopedia of Biometrics provides easy access to relevant information on all aspects of biometrics for those seeking entry into this broad field. The Encyclopedia is composed of approximately 250 overview entries, and 800 definitional entries

INGEGNERIA / ENGINEERING

Ingegneria Civile / Civil Engineering



Langdon D.

Spon's External Works and Landscape Price Book 2010 - 29/e

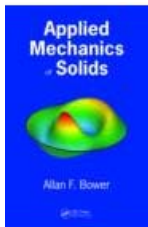
ril. 9780415552608 Lst 115 pagg. 592;

Taylor and Francis (24/09/2009)

Ingegneria Civile / Civil Engineering

Now in its 29th edition, Spon's External Works and Landscape Price Book 2010 offers the only comprehensive source of information for detailed external works and landscape costs. All the items to be found in hard and soft landscape contracts are covered, forming an indispensable reference book for quantity surveyors, landscape architects, contractors and Local Authority managers – essential for compiling estimates, specifications, bills of quantities and works schedules – and no matter what the size of the project being undertaken

Ingegneria Meccanica / Mechanical Engineering



Bower A.F.

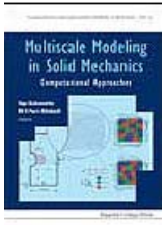
Applied Mechanics of Solids

ril. 9781439802472 Lst 57,99 pagg. 820;

CRC Press (01/10/2009)

Ingegneria Meccanica / Mechanical Engineering

Modern computer simulations make stress analysis easy. As they continue to replace classical mathematical methods of analysis, these software programs require users to have a solid understanding of the fundamental principles on which they are based. Develop Intuitive Ability to Identify and Avoid Physically Meaningless Applied Mechanics of Solids is a powerful tool for understanding how to take advantage of these revolutionary computer advances in the field of solid mechanics. Beginning with a description of the physical and mathematical laws that govern deformation in solids, the text presents modern constitutive equations, as well as analytical and computational methods of stress analysis and fracture mechanics. It also addresses the nonlinear theory of deformable rods, membranes, plates, and shells, and solutions to important boundary and initial value problems in solid mechanics



Galvanetto U.

Multiscale Modeling in Solid Mechanics: Computational Approaches

Introductory Offer till Dec 31, 2009 Lst 77

ril. 9789812569103 Lst 96 pagg. 352;

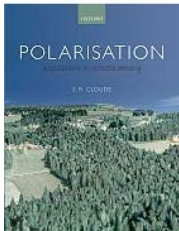
World Scientific Publishing (01/11/2009)

Ingegneria Meccanica / Mechanical Engineering

This unique volume presents the state of the art in the field of multiscale modeling in solid mechanics, with particular emphasis on computational approaches. For the first time, contributions from both leading experts in the field and younger promising researchers are combined to give a comprehensive description of the recently proposed techniques and the engineering problems tackled using these techniques

SCIENZE FISICO-MATEMATICHE / MATHEMATICS AND

Astronomia / Astronomy



Cloude S.

Polarisation: Applications in Remote Sensing

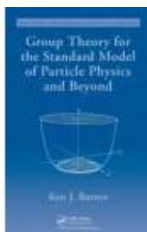
ril. 9780199569731 Lst 65 pagg. 472;

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

Astronomia / Astronomy

In this monograph S.R. Cloude introduces, for the first time, the topics of radar polarimetry and interferometry. This topic was first developed in 1997 and has since developed into a major topic in radar sciences and its applications, in particular to space sciences. In its simplest form it concerns the study of interferograms formed by combining waves with different polarizations and their exploitation to infer important physical properties of the planetary surface being investigated

Fisica / Physics



BARNES K.J.

Group Theory for the Standard Model of Particle Physics and Beyond

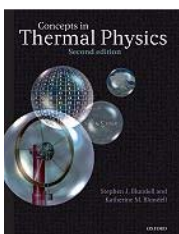
Series: Series in High Energy Physics, Cosmology and Gravitation

ril. 9781420078749 Lst 38,99 pagg. 250;

Taylor and Francis (11/11/2009)

Fisica / Physics

Based on the author's well-established courses, *Group Theory for the Standard Model of Particle Physics and Beyond* explores the use of symmetries through descriptions of the techniques of Lie groups and Lie algebras. The text develops the models, theoretical framework, and mathematical tools to understand these symmetries. After linking symmetries with conservation laws, the book works through the mathematics of angular momentum and extends operators and functions of classical mechanics to quantum mechanics. It then covers the mathematical framework for special relativity and the internal symmetries of the standard model of elementary particle physics. In the chapter on Noether's theorem, the author explains how Lagrangian formalism provides a natural framework for the quantum mechanical interpretation of symmetry principles. He then examines electromagnetic, weak, and strong interactions; spontaneous symmetry breaking; the elusive Higgs boson; and supersymmetry. He also introduces new techniques based on extending space-time into dimensions described by anticommuting coordinates



Blundell

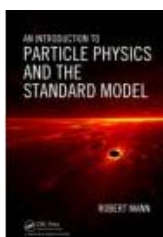
Concepts in Thermal Physics 2/e

ril. 9780199562091 Lst 55 br. 9780199562107 Lst 27,50 pagg. 512;

Oxford U.P. (01/10/2009)

Fisica / Physics

An understanding of thermal physics is crucial to much of modern physics, chemistry and engineering. This book provides a modern introduction to the main principles that are foundational to thermal physics, thermodynamics and statistical mechanics. The key concepts are carefully presented in a clear way, and new ideas are illustrated with copious worked examples as well as a description of the historical background to their discovery. Applications are presented to subjects as diverse as stellar astrophysics, information and communication theory, condensed matter physics and climate change. Each chapter concludes with detailed exercises



Mann R.

An Introduction to Particle Physics and the Standard Model

ril. 9781420082982 Lst 49,99 pagg. 600;

CRC Press (20/11/2009)

Fisica / Physics

Emphasizing the connections between particle physics and the rest of the physics field, this book provides an organizational framework for understanding modern particle physics. The author presents a standard model of strong, weak, and electromagnetic interactions. Undergraduate students will develop a working knowledge of some of the calculation methods and mathematical tools used in particle physics. Reviewing key experimental and theoretical achievements in the field, the text covers such topics as conservation laws, quantum electrodynamics, and wave equations. The final chapter offers a perspective on the future of particle physics



Narlikar A.V.

Oxford Handbook of Nanoscience and Technology - Volume 1: Basic Aspects

Series: *Oxford Handbooks in Physics*

9780199533046 Lst 125 pagg. 920; illustrazioni: 450;

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

Fisica / Physics

Presents frontier research in nanoscience and nanotechnology Describes fundamental issues and theories of nanomaterials Explains state of art technologies in synthesis, manipulation and characterization of nanostructure materials Contributions from leading authors in the field This is an agenda-setting and high-profile book that presents an authoritative and cutting-edge analysis of nanoscience and technology. The Oxford Handbook of Nanoscience and Technology provides a comprehensive and accessible overview of the major achievements in different aspects of this field. The Handbook comprises 3 volumes, structured thematically, with 25 chapters each. Volume I presents fundamental issues of basic physics, chemistry, biochemistry, tribology etc. of nanomaterials. Volume II focuses on the progress made with host of nanomaterials including DNA and protein based nanostructures. Volume III highlights engineering and related developments, with a focus on frontal application areas. All chapters are written by noted international experts in the field. The book should be useful for final year undergraduates specializing in the field. It should prove indispensable to graduate students, and serious researchers from academic and industrial sectors working in the field of Nanoscience and Technology from different disciplines including Physics, Chemistry, Biochemistry, Biotechnology, Medicine, Materials Science, Metallurgy, Ceramics, Information Technology as well as Electrical, Electronic and Computational Engineering



Narlikar A.V.

Oxford Handbook of Nanoscience and Technology - Volume 2: Materials: Structures, Properties and Characterization Techniques

Series: *Oxford Handbooks in Physics*

ril. 9780199533053 Lst 125 pagg. 960; illustrazioni: 450;

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

Fisica / Physics

This is an agenda-setting and high-profile book that presents an authoritative and cutting-edge analysis of nanoscience and technology. The Oxford Handbook of Nanoscience and Technology provides a comprehensive and accessible overview of the major achievements in different aspects of this field. The Handbook comprises 3 volumes, structured thematically, with 25 chapters each. Volume I presents fundamental issues of basic physics, chemistry, biochemistry, tribology etc. of nanomaterials. Volume II focuses on the progress made with host of nanomaterials including DNA and protein based nanostructures. Volume III highlights engineering and related developments, with a focus on frontal application areas. All chapters are written by noted international experts in the field



Narlikar A.V.

Oxford Handbook of Nanoscience and Technology - Volume 3: Applications

Series: *Oxford Handbooks in Physics*

ril. 9780199533060 Lst 125 pagg. 936;

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

Fisica / Physics

Presents frontier research in nanoscience and nanotechnology Describes fundamental issues and theories of nanomaterials Explains state of art technologies in synthesis, manipulation and characterization of nanostructure materials Contributions from leading authors in the field This is an agenda-setting and high-profile book that presents an authoritative and cutting-edge analysis of nanoscience and technology. The Oxford Handbook of Nanoscience and Technology provides a comprehensive and accessible overview of the major achievements in different aspects of this field. The Handbook comprises 3 volumes, structured thematically, with 25 chapters each. Volume I presents fundamental issues of basic physics, chemistry, biochemistry, tribology etc. of nanomaterials. Volume II focuses on the progress made with host of nanomaterials including DNA and protein based nanostructures. Volume III highlights engineering and related developments



Narlikar A.V.

Oxford Handbook of Nanoscience and Technology Three-Volume Set

Series: *Oxford Handbooks in Physics*

ril. 9780199574438 Lst 299 pagg. 2816;

Oxford U.P. (01/01/2010)

Fisica / Physics

This is an agenda-setting and high-profile book that presents an authoritative and cutting-edge analysis of nanoscience and technology. The Oxford Handbook of Nanoscience and Technology provides a comprehensive and accessible overview of the major achievements in different aspects of this field. The Handbook comprises 3 volumes, structured thematically, with 25 chapters each. Volume I presents fundamental issues of basic physics, chemistry, biochemistry, tribology etc. of nanomaterials. Volume II focuses on the progress made with host of nanomaterials including DNA and protein based nanostructures. Volume III highlights engineering and related developments, with a focus on frontal application areas. All chapters are written by noted international experts in the field. The book should be useful for final year undergraduates specializing in the field. It should prove indispensable to graduate students, and serious researchers from academic and industrial sectors working in the field of Nanoscience and Technology from different disciplines including Physics, Chemistry, Biochemistry, Biotechnology, Medicine, Materials Science, Metallurgy, Ceramics, Information Technology as well as Electrical, Electronic and Computational Engineering

Geometria / Geometry

Garcia-Prada O.



The Many Facets of Geometry - A Tribute to Nigel Hitchin

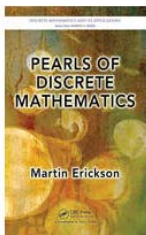
ril. 9780199534920 Lst 49,95 pagg. 464;

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

Geometria / Geometry

Few people have proved more influential in the field of differential and algebraic geometry, and in showing how this links with mathematical physics, than Nigel Hitchin. Oxford University's Savilian Professor of Geometry has made fundamental contributions in areas as diverse as: spin geometry, instanton and monopole equations, twistor theory, symplectic geometry of moduli spaces, integrables systems, Higgs bundles, Einstein metrics, hyperkähler geometry, Frobenius manifolds, Painlevé equations, special Lagrangian geometry and mirror symmetry, theory of gerbes, and many more

Matematica / Mathematics



Erickson M.

Pearls of Discrete Mathematics

Series: Discrete Mathematics and Its Applications

br. 9781439816165 Lst 38,99 pagg. 280;

CRC Press (16/09/2009)

Matematica / Mathematics

Pearls of Discrete Mathematics presents methods for solving counting problems and other types of problems that involve discrete structures. Through intriguing examples, problems, theorems, and proofs, the book illustrates the relationship of these structures to algebra, geometry, number theory, and combinatorics. Each chapter begins with a mathematical teaser to engage readers and includes a particularly surprising, stunning, elegant, or unusual result. The author covers the upward extension of Pascal's triangle, a recurrence relation for powers of Fibonacci numbers, ways to make change for a million dollars, integer triangles, the period of Alcuin's sequence, and Rook and Queen paths and the equivalent Nim and Wythoff's Nim games. He also examines the probability of a perfect bridge hand, random tournaments, a Fibonacci-like sequence of composite numbers, Shannon's theorems of information theory, higher-dimensional tic-tac-toe, animal achievement and avoidance games, and an algorithm for solving Sudoku puzzles and polycube packing problems. Exercises ranging from easy to challenging are found in each chapter while hints and solutions are provided in an appendix

Kendall W.S.



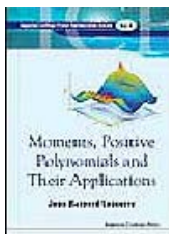
New Perspectives in Stochastic Geometry

ril. 9780199232574 Lst 75 pagg. 608;

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

Matematica / Mathematics

Stochastic Geometry is a subject with roots stretching back at least 300 years, but one which has only been formed as an academic area in the last 50 years. It covers the study of random patterns, their probability theory, and the challenging problems raised by their statistical analysis. It has grown rapidly in response to challenges in all kinds of applied science, from image analysis through to materials science. Recently, still more stimulus has arisen from exciting new links with rapidly developing areas of mathematics, from fractals through percolation theory to randomized allocation schemes



Lasserre J.B.

MOMENTS, POSITIVE POLYNOMIALS AND THEIR APPLICATIONS

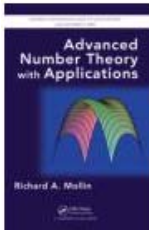
Series: Imperial College Press Optimization

ril. 9781848164451 Lst 56 pagg. 384;

World Scientific Publishing (01/10/2009)

Matematica / Mathematics

Many important problems in global optimization, algebra, probability and statistics, applied mathematics, control theory, financial mathematics, inverse problems, etc. can be modeled as a particular instance of the Generalized Moment Problem (GMP). This book introduces, in a unified manual, a new general methodology to solve the GMP when its data are polynomials and basic semi-algebraic sets. This methodology combines semidefinite programming with recent results from real algebraic geometry to provide a hierarchy of semidefinite relaxations converging to the desired optimal value. Applied on appropriate cones, standard duality in convex optimization nicely expresses the duality between moments and positive polynomials. In the second part of this invaluable volume, the methodology is particularized and described in detail for various applications, including global optimization, probability, optimal context, mathematical finance, multivariate integration, etc., and examples are provided for each particular application



Mollin R.A.

Advanced Number Theory with Applications

Series: *Discrete Mathematics and Its Applications*

ril. 9781420083286 Lst 57,99 pagg. 440;

Chapman Hall/ CRC (26/08/2009)

Matematica / Mathematics

Exploring one of the most dynamic areas of mathematics, *Advanced Number Theory with Applications* covers a wide range of algebraic, analytic, combinatorial, cryptographic, and geometric aspects of number theory. Written by a recognized leader in algebra and number theory, the book includes a page reference for every citing in the bibliography and more than 1,500 entries in the index so that students can easily cross-reference and find the appropriate data.



Paun G.

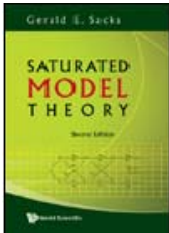
The Oxford Handbook of Membrane Computing

ril. 9780199556670 Lst 85 pagg. 688;

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

Matematica / Mathematics

Part of the broader research field of natural computing, Membrane Computing is an area within computing science that aims to abstract computing ideas and models from the structure and functioning of living cells, as well as from the way the cells are organized in tissues or higher order structures. It studies models of computation (known as P systems) inspired by the biochemistry of cells, in particular by the role of membranes in the compartmentalization of living cells into "protected reactors"



Sacks G.E.

SATURATED MODEL THEORY 2/e

ril. 9789812833815 Lst 36 pagg. 220;

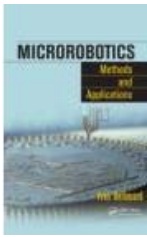
World Scientific Publishing (01/10/2009)

Matematica / Mathematics

This book contains the material for a first course in pure model theory with applications to differentially closed fields. Topics covered in this book include saturated model criteria for model completeness and elimination of quantifiers; Morley rank and degree of element types; categoricity in power; two-cardinal theorems; existence and uniqueness of prime model extensions of substructures of models of totally transcendental theories; and homogeneity of models of \aleph_1 -categorical theories

TECNOLOGIA / TECHNOLOGY

Elettronica / Electronics



Bellouard Y.

Microrobotics: Methods and Applications

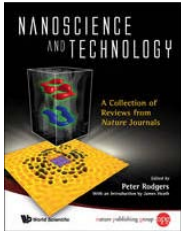
9781420061956 Ls 78,99 pagg. 464;

CRC Press (26/10/2009)

Elettronica / Electronics

From conception to realization, *Microrobotics: Methods and Applications* covers all aspects of miniaturized systems that physically interact and manipulate objects at the microscale. It provides a solid understanding of this multidisciplinary field, which combines areas of materials science, mechanical engineering, and applied physics

Tecnologia / Technology



Rodgers P.

Nanoscience and Technology: A Collection of Reviews from Nature Journals

ril. 9789814282680 Lst 126 pagg. 368;

World Scientific Publishing (01/08/2009)

Tecnologia / Technology

This book contains 35 review articles on nanoscience and nanotechnology that were first published in "Nature Nanotechnology", "Nature Materials" and a number of other "Nature" journals. The articles are all written by leading authorities in their field and cover a wide range of areas in nanoscience and technology, from basic research (such as single-molecule devices and new materials) through to applications (in, for example, nanomedicine and data storage)

Licosa
Sansoni

Libreria Commissionaria Sansoni
Via Duca di Calabria 1/1
50125 Firenze - Italia
fax: +39 055 641257
licosa.informa@licosa.com