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Mechcomp2 - Antonio J.M. Ferreira 2016-05-20
Composites materials have aroused a great interest over the last few decades. Several applications of fibrous composites, functionally graded materials, laminated composites, nano-structured reinforcements, morphing structures, can be found in many engineering fields, such as aerospace, mechanical, naval and civil engineering. The necessity of lightweight structures, smart and adaptive systems, high-level strength, have led both the academic research and the manufacturing development to a recurring employment of these materials. Many journal papers and technical notes have been published extensively over the last seventy years in international scientific journals of different engineering fields. For this reason, the establishment of this second edition of Mechanics of Composites International Conference has appeared appropriate to continue what has been begun during the first edition occurred in 2014 at Stony Brook University (USA). MECHCOMP wants to be an occasion for many researchers from each part of the globe to meet and discuss about the recent advancements regarding the use of composite structures. As a proof of this event, which has taken place in Porto (Portugal), selected plenary and key-note lectures have been collected in the present book.

Applied Equity Analysis and Portfolio Management, + Online Video Course -

Robert A. Weigand 2014-01-28

A "hands-on" guide to applied equity analysis and portfolio management From asset allocation to modeling the intrinsic value of a stock, Applied Equity Analysis and Portfolio Management + Online Video Course offers

readers a solid foundation in the practice of fundamental analysis using the same tools and techniques as professional investors. Filled with real-world illustrations and hands-on applications, Professor Weigand's learning system takes a rigorous, empirical approach to topics such as analyzing the macro-finance environment, sector rotation, financial analysis and valuation, assessing a company's competitive position, and reporting the performance of a stock portfolio. Unlike typical books on this subject—which feature chapters to read and exercises to complete—this resource allows readers to actively participate in the learning experience by completing writing exercises and manipulating interactive spreadsheets that illustrate the principles being taught. The learning system also features instructional videos that demonstrate how to use the spreadsheet models and excerpts from the author's blog, which are used to depict additional examples of the analysis process. Along the way, it skillfully outlines an effective approach to creating and interpreting outputs typically associated with a top-down money management shop — including a macroeconomic forecasting newsletter, detailed stock research reports, and a portfolio performance attribution analysis. Covers topics including active and passive money management, fundamental analysis and portfolio attribution analysis Companion streaming videos show how to use free online data to create your own analyses of key economic indicators, individual stocks, and stock portfolios A valuable resource for universities who have applied equity analysis and portfolio management courses Practical and up-to-date, the book is an excellent resource for

those with a need for practical investment expertise.

Light Steel Framing in Residential Construction - E. Yandzio 2015

Deep Eutectic Solvents/Complex Salts-Based Electrolyte for Next Generation Rechargeable Batteries - Du Yuan 2021-01-12

Invent Your Own Computer Games with Python, 4th Edition - Al Sweigart 2016-12-16

Invent Your Own Computer Games with Python will teach you how to make computer games using the popular Python programming language—even if you’ve never programmed before! Begin by building classic games like Hangman, Guess the Number, and Tic-Tac-Toe, and then work your way up to more advanced games, like a text-based treasure hunting game and an animated collision-dodging game with sound effects. Along the way, you’ll learn key programming and math concepts that will help you take your game programming to the next level. Learn how to:

- Combine loops, variables, and flow control statements into real working programs
- Choose the right data structures for the job, such as lists, dictionaries, and tuples
- Add graphics and animation to your games with the pygame module
- Handle keyboard and mouse input
- Program simple artificial intelligence so you can play against the computer
- Use cryptography to convert text messages into secret code
- Debug your programs and find common errors

As you work through each game, you’ll build a solid foundation in Python and an understanding of computer science fundamentals. What new game will you create with the power of Python? The projects in this book are compatible with Python 3.

Project Management in Practice - Samuel J. Mantel 2011

Project Management in Practice, 4th Edition focuses on the technical aspects of project management that are directly related to practice.

Motor Record - 1924

Polymer Electrolytes - Tan Winie 2020-02-18
A comprehensive overview of the main characterization techniques of polymer

electrolytes and their applications in electrochemical devices. Polymer Electrolytes is a comprehensive and up-to-date guide to the characterization and applications of polymer electrolytes. The authors’ noted experts on the topic discuss the various characterization methods, including impedance spectroscopy and thermal characterization. The authors also provide information on the myriad applications of polymer electrolytes in electrochemical devices, lithium ion batteries, supercapacitors, solar cells and electrochromic windows. Over the past three decades, researchers have been developing new polymer electrolytes and assessed their application potential in electrochemical and electrical power generation, storage, and conversion systems. As a result, many new polymer electrolytes have been found, characterized, and applied in electrochemical and electrical devices. This important book:

- Reviews polymer electrolytes, a key component in electrochemical power sources, and thus benefits scientists in both academia and industry
- Provides an interdisciplinary resource spanning electrochemistry, physical chemistry, and energy applications
- Contains detailed and comprehensive information on characterization and applications of polymer electrolytes

Written for materials scientists, physical chemists, solid state chemists, electrochemists, and chemists in industry professions, Polymer Electrolytes is an essential resource that explores the key characterization techniques of polymer electrolytes and reveals how they are applied in electrochemical devices.

Two-Phase Flow for Automotive and Power Generation Sectors - Kaushik Saha 2018-11-03

This book focuses on the two-phase flow problems relevant in the automotive and power generation sectors. It includes fundamental studies on liquid-gas two-phase interactions, nucleate and film boiling, condensation, cavitation, suspension flows as well as the latest developments in the field of two-phase problems pertaining to power generation systems. It also discusses the latest analytical, numerical and experimental techniques for investigating the role of two-phase flows in performance analysis of devices like combustion engines, gas turbines, nuclear reactors and fuel cells. The wide scope of applications of this topic makes this book of

interest to researchers and professionals alike.
Code of practice for site investigations - British Standards Institution 2010

Fire Safety in the Design, Management and Use of Residential Buildings. Code of Practice - British Standards Institute Staff 1915-10-31

Fire safety in buildings, Fire safety, Buildings, Design, Safety measures, Flats, Residential facilities, Domestic facilities, Structural design, Fire-escape routes, Fire spread prevention, Emergency exits, Firefighting equipment, Ventilation, Fire risks, Fire doors, Fire detectors, Fire alarms, Smoke, Smoke detectors, Fire resistance, Construction systems parts, Doors, Structural fire protection, Stairs, Exits, Housing, Building services, Lighting systems, Smoke control, Single-family dwellings

An Introduction to Domain Decomposition Methods: Algorithms, Theory, and Parallel Implementation - Victorita Dolean 2015-12-08

The purpose of this book is to offer an overview of the most popular domain decomposition methods for partial differential equations (PDEs). These methods are widely used for numerical simulations in solid mechanics, electromagnetism, flow in porous media, etc., on parallel machines from tens to hundreds of thousands of cores. The appealing feature of domain decomposition methods is that, contrary to direct methods, they are naturally parallel. The authors focus on parallel linear solvers. The authors present all popular algorithms, both at the PDE level and at the discrete level in terms of matrices, along with systematic scripts for sequential implementation in a free open-source finite element package as well as some parallel scripts. Also included is a new coarse space construction (two-level method) that adapts to highly heterogeneous problems.?

The Economist - 1855

Monthly Summary of Foreign Commerce of the United States - United States. Bureau of the Census 1917

Accompanied by annual issue in 1944 and by quarterly cumulative issues beginning in 1945.

Machine Learning in Biomolecular Simulations - Gennady Verkhivker 2019-10-21
Machine learning methods such as neural

networks, non-linear dimensionality reduction techniques, random forests and others meet in this research topic with biomolecular simulations. The authors of eight articles applied these methods to analyze simulation results, accelerate simulations or to make molecular mechanics force fields more accurate.

Architect's Legal Handbook - Anthony Speaight QC 2021-01-29

The Architect's Legal Handbook is the most widely used reference on the law for practicing architects and the established textbook on law for architectural students. Since the last edition of this book in 2010, the legal landscape in which architecture is practised has changed significantly: the long-standing procurement model with an architect as contract administrator has been challenged by the growing popularity of design and build contracts, contract notices in place of certificates, and novation of architect's duties. The tenth edition features all the latest developments in the law which affect an architect's work, as well as providing comprehensive coverage of relevant UK law topics. Key highlights of this edition include: an overview of the legal environment, including contract, tort, and land law; analysis of the statutory framework, including planning law, health and safety, construction legislation, and building regulations in the post-Grenfell legal landscape; procurement, and the major industry construction contract forms; building dispute resolution, including litigation, arbitration, adjudication, and mediation; key fields for the architect in practice, including architects' registration and professional conduct, contracts with clients and collateral warranties, liability in negligence, and insurance; entirely new chapters on various standard form contracts, architects' responsibility for the work of others, disciplinary proceedings, and data protection; tables of cases, legislation, statutes, and statutory instruments give a full overview of references cited in the text. The Architect's Legal Handbook is the essential legal reference work for all architects and students of architecture.

Infections in IV Drug Users, An Issue of Infectious Disease Clinics of North America, E-Book - Carlos Del Rio 2020-08-31

Together with Consulting Editor, Dr. Helen Bucher, Guest Editors Dr. Carlos Del Rio and Dr. Sandra Springer have put together an important monograph that addresses infections in IV drug users. They have selected top experts to contribute clinical reviews for infectious disease physicians. Articles are devoted to the following topics: Medical and Surgical management of Infectious endocarditis in persons who use drugs; The Microbiology Laboratory and the Opioid epidemic; The Geography of Infectious Diseases Related to the Opioid Epidemic; Soft tissue, bone and joint infections related to illicit drug use; Management of opioid use disorder and infectious disease in the inpatient setting; Outpatient antimicrobial and OUD management in persons who use drugs; Novel approaches to antimicrobials for injection drug use associated infections; HCV treatment and reinfection risk in persons who use drugs on medication treatment for OUD: A systematic review in CJS settings; Treating opioid use disorder and related infectious diseases in the criminal justice system; Harm reduction services to prevent and treat infectious disease in persons who use drugs; Improving the management of patients with chronic opioid therapy in the outpatient setting; The Global Task Force for Chronic Pain in People Living with HIV (PLWH): Developing a research agenda in an emerging field; and Lessons learned from the response to the HIV epidemic that can inform addressing the opioid epidemic. Readers will come away with the clinical information they need to treat and improve outcomes in these patients.

The Immunoassay Handbook - David Wild
2013-01-21

The fourth edition of *The Immunoassay Handbook* provides an excellent, thoroughly updated guide to the science, technology and applications of ELISA and other immunoassays, including a wealth of practical advice. It encompasses a wide range of methods and gives an insight into the latest developments and applications in clinical and veterinary practice and in pharmaceutical and life science research. Highly illustrated and clearly written, this award-winning reference work provides an excellent guide to this fast-growing field. Revised and extensively updated, with over 30% new material and 77 chapters, it reveals the

underlying common principles and simplifies an abundance of innovation. The *Immunoassay Handbook* reviews a wide range of topics, now including lateral flow, microsphere multiplex assays, immunohistochemistry, practical ELISA development, assay interferences, pharmaceutical applications, qualitative immunoassays, antibody detection and lab-on-a-chip. This handbook is a must-read for all who use immunoassay as a tool, including clinicians, clinical and veterinary chemists, biochemists, food technologists, environmental scientists, and students and researchers in medicine, immunology and proteomics. It is an essential reference for the immunoassay industry. Provides an excellent revised guide to this commercially highly successful technology in diagnostics and research, from consumer home pregnancy kits to AIDS testing.

www.immunoassayhandbook.com is a great resource that we put a lot of effort into. The content is designed to encourage purchases of single chapters or the entire book. David Wild is a healthcare industry veteran, with experience in biotechnology, pharmaceuticals, medical devices and immunodiagnostics, which remains his passion. He worked for Amersham, Eastman-Kodak, Johnson & Johnson, and Bristol-Myers Squibb, and consulted for diagnostics and biotechnology companies. He led research and development programs, design and construction of chemical and biotechnology plants, and integration of acquired companies. Director-level positions included Research and Development, Design Engineering, Operations and Strategy, for billion dollar businesses. He retired from full-time work in 2012 to focus on his role as Editor of *The Immunoassay Handbook*, and advises on product development, manufacturing and marketing. Provides a unique mix of theory, practical advice and applications, with numerous examples Offers explanations of technologies under development and practical insider tips that are sometimes omitted from scientific papers Includes a comprehensive troubleshooting guide, useful for solving problems and improving assay performance Provides valuable chapter updates, now available on www.immunoassayhandbook.com
The LPC Design Guide for the Fire Protection of Buildings - 2003

Recent Advances in Iron Catalysis - Hans-Joachim Knölker 2020-09-28

Transition metal-catalyzed reactions play a key role in many transformations of synthetic organic chemistry. For most of these reactions, noble metals, for example, palladium, have been used as catalysts. Over the last two decades, more and more first row transition metals have been applied as catalysts for organic reactions, with iron taking the center stage. The driving forces behind this development are not only the high costs for the noble metals but also their toxicity. Iron is the most abundant transition metal in the Earth's crust, and thus, it is considerably cheaper than the precious noble metals. Moreover, iron compounds are involved in many biological processes, and thus, iron exhibits a low toxicity. Because of this low toxicity, iron-catalyzed reactions are important for an environmentally benign sustainable chemistry. However, iron catalysts are not only investigated to replace noble metals; they offer many applications in synthesis beyond those of classical noble metal catalysts. Several articles of the present book emphasize the complementarity of iron-catalyzed reactions as compared to reactions catalyzed by noble metals. The book shows intriguing recent developments and the current standing of iron-catalyzed reactions as well as applications to organic synthesis.

How Tobacco Smoke Causes Disease - 2010

This report considers the biological and behavioral mechanisms that may underlie the pathogenicity of tobacco smoke. Many Surgeon General's reports have considered research findings on mechanisms in assessing the biological plausibility of associations observed in epidemiologic studies. Mechanisms of disease are important because they may provide plausibility, which is one of the guideline criteria for assessing evidence on causation. This report specifically reviews the evidence on the potential mechanisms by which smoking causes diseases and considers whether a mechanism is likely to be operative in the production of human disease by tobacco smoke. This evidence is relevant to understanding how smoking causes disease, to identifying those who may be particularly susceptible, and to assessing the potential risks of tobacco products.

Pain Management and the Opioid Epidemic

- National Academies of Sciences, Engineering, and Medicine 2017-09-28

Drug overdose, driven largely by overdose related to the use of opioids, is now the leading cause of unintentional injury death in the United States. The ongoing opioid crisis lies at the intersection of two public health challenges: reducing the burden of suffering from pain and containing the rising toll of the harms that can arise from the use of opioid medications. Chronic pain and opioid use disorder both represent complex human conditions affecting millions of Americans and causing untold disability and loss of function. In the context of the growing opioid problem, the U.S. Food and Drug Administration (FDA) launched an Opioids Action Plan in early 2016. As part of this plan, the FDA asked the National Academies of Sciences, Engineering, and Medicine to convene a committee to update the state of the science on pain research, care, and education and to identify actions the FDA and others can take to respond to the opioid epidemic, with a particular focus on informing FDA's development of a formal method for incorporating individual and societal considerations into its risk-benefit framework for opioid approval and monitoring.

Environmental Impact of Ships - Stephen de Mora 2020-11-05

A comprehensive, global review of the impact ships have on the environment, covering pollutant discharges, non-pollutant impacts and international legislation.

The BS 9999 Handbook - Michael Green (chartered engineer.) 1910-05-21

Fire safety in buildings, Fire safety, Risk assessment, Management, Buildings by fire risk categories, Means of escape from fire in buildings, Crowd safety, Fire-escape routes, Emergency exits, Emergency lighting, Circulation and space systems (buildings), Structural fire protection, Fire spread prevention, Fire-resistant materials, Fire doors, Hazard prevention in buildings, Firefighting, Fire alarms, Lifts, Atria (buildings), Assembly facilities, Seating, Buildings open to the public, Shops (buildings), Shopping centres, Disabled people

Advances in Protein Molecular and Structural Biology Methods - Timir Tripathi 2022-01-14

Advances in Protein Molecular and Structural Biology Methods offers a complete overview of the latest tools and methods applicable to the study of proteins at the molecular and structural level. The book begins with sections exploring tools to optimize recombinant protein expression and biophysical techniques such as fluorescence spectroscopy, NMR, mass spectrometry, cryo-electron microscopy, and X-ray crystallography. It then moves towards computational approaches, considering structural bioinformatics, molecular dynamics simulations, and deep machine learning technologies. The book also covers methods applied to intrinsically disordered proteins (IDPs) followed by chapters on protein interaction networks, protein function, and protein design and engineering. It provides researchers with an extensive toolkit of methods and techniques to draw from when conducting their own experimental work, taking them from foundational concepts to practical application. Presents a thorough overview of the latest and emerging methods and technologies for protein study Explores biophysical techniques, including nuclear magnetic resonance, X-ray crystallography, and cryo-electron microscopy Includes computational and machine learning methods Features a section dedicated to tools and techniques specific to studying intrinsically disordered proteins

Shoe and Leather Reporter - 1916

Free Energy Calculations - Christophe Chipot
2007-01-08

Free energy constitutes the most important thermodynamic quantity to understand how chemical species recognize each other, associate or react. Examples of problems in which knowledge of the underlying free energy behaviour is required, include conformational equilibria and molecular association, partitioning between immiscible liquids, receptor-drug interaction, protein-protein and protein-DNA association, and protein stability. This volume sets out to present a coherent and comprehensive account of the concepts that underlie different approaches devised for the determination of free energies. The reader will gain the necessary insight into the theoretical and computational foundations of the subject and will be presented with relevant applications

from molecular-level modelling and simulations of chemical and biological systems. Both formally accurate and approximate methods are covered using both classical and quantum mechanical descriptions. A central theme of the book is that the wide variety of free energy calculation techniques available today can be understood as different implementations of a few basic principles. The book is aimed at a broad readership of graduate students and researchers having a background in chemistry, physics, engineering and physical biology.

Active Materials - Peter Fratzl 2021-12-20

What are active materials? This book aims to introduce and redefine conceptions of matter by considering materials as entities that 'sense' and respond to their environment. By examining the modeling of, the experiments on, and the construction of these materials, and by developing a theory of their structure, their collective activity, and their functionality, this volume identifies and develops a novel scientific approach to active materials. Moreover, essays on the history and philosophy of metallurgy, chemistry, biology, and materials science provide these various approaches to active materials with a historical and cultural context. The interviews with experts from the natural sciences included in this volume develop new understandings of 'active matter' and active materials in relation to a range of research objects and from the perspective of different scientific disciplines, including biology, physics, chemistry, and materials science. These insights are complemented by contributions on the activity of matter and materials from the humanities and the design field. Discusses the mechanisms of active materials and their various conceptualizations in materials science. Redefines conceptions of active materials through interviews with experts from the natural sciences. Contextualizes, historizes, and reflects on different notions of matter/materials and activity through contributions from the humanities. A highly interdisciplinary approach to a cutting-edge research topic, with contributions from both the sciences and the humanities.

Understanding Digital Marketing - Damian Ryan
2012-03-03

Digital marketing now represents 25% of the

marketing spend in the UK and this is predicted to move to 50% or higher within the next three years. Understanding Digital Marketing looks at the world of digital marketing: how it got started, how it got to where it is today, and where the thought leaders in the industry believe it is headed in the future. This authoritative title demonstrates how to harness the power of digital media and use it to achieve the utmost success in business, now and in the future. Understanding Digital Marketing deals with every key topic in detail, including: search marketing, social media, Google, mobile marketing, affiliate marketing, e-mail marketing, customer engagement and digital marketing strategies. Essential reading for both practitioners and students alike, and including real-world examples of digital marketing successes and expert opinions, Understanding Digital Marketing provides you with tools to utilize the power of the internet to take your company wherever you want it to go.

Electrochromic Materials and Devices - Roger J. Mortimer 2015-07-27

Electrochromic materials can change their properties under the influence of an electrical voltage or current. Different classes of materials show this behavior such as transition metal oxides, conjugated polymers, metal-coordinated complexes and organic molecules. As the color change is persistent, the electric field needs only to be applied to initiate the switching, allowing for applications such as low-energy consumption displays, light-adapting mirrors in the automobile industry and smart windows for which the amount of transmitted light and heat can be controlled. The first part of this book describes the different classes and processing techniques of electrochromic materials. The second part highlights nanostructured electrochromic materials and device fabrication, and the third part focuses on the applications such as smart windows, adaptive camouflage, biomimicry, wearable displays and fashion. The last part rounds off the book by device case studies and environmental impact issues.

The Foreign Commerce and Navigation of the United States for the Year Ending ... - 1919

Introduction to Management Science with Spreadsheets - William J. Stevenson 2007

This text combines the market leading writing and presentation skills of Bill Stevenson with integrated, thorough, Excel modeling from Ceyhun Ozgur. Professor Ozgur teaches Management Science, Operations, and Statistics using Excel, at the undergrad and MBA levels at Valparaiso University --and Ozgur developed and tested all examples, problems and cases with his students. The authors have written this text for students who have no significant mathematics training and only the most elementary experience with Excel.

Polymer-Engineered Nanostructures for Advanced Energy Applications - Zhiqun Lin 2017-06-16

This book provides a comprehensive overview of engineering nanostructures mediated by functional polymers in combination with optimal synthesis and processing techniques. The focus is on polymer-engineered nanostructures for advanced energy applications. It discusses a variety of polymers that function as precursors, templates, nano-reactors, surfactants, stabilizers, modifiers, dopants, and spacers for directing self-assembly, assisting organization, and templating growth of numerous diverse nanostructures. It also presents a wide range of polymer processing techniques that enable the efficient design and optimal fabrication of nanostructured polymers, inorganics, and organic-inorganic nanocomposites using in-situ hybridization and/or ex-situ recombination methodologies. Combining state-of-the-art knowledge from polymer-guided fabrication of advanced nanostructures and their unique properties, it especially highlights the new, cutting-edge breakthroughs, future horizons, and insights into such nanostructured materials in applications such as photovoltaics, fuel cells, thermoelectrics, piezoelectrics, ferroelectrics, batteries, supercapacitors, photocatalysis, and hydrogen generation and storage. It offers an instructive and approachable guide to polymer-engineered nanostructures for further development of advanced energy materials to meet ever-increasing global energy demands. Interdisciplinary and broad perspectives from internationally respected contributors ensure this book serves as a valuable reference source for scientists, students, and engineers working in polymer science, renewable energy materials,

materials engineering, chemistry, physics, surface/interface science, and nanotechnology. It is also suitable as a textbook for universities, institutes, and industrial institutions.

Combining Simulations, Theory, and Experiments into Multiscale Models of Biological Events - Fabio Trovato 2022-01-11

Free Radicals in Biology and Medicine - Barry Halliwell 2015

Free Radicals in Biology and Medicine has become a classic text in the field of free radical and antioxidant research. Now in its fifth edition, the book has been comprehensively rewritten and updated whilst maintaining the clarity of its predecessors. Two new chapters discuss 'in vivo' and 'dietary' antioxidants, the first emphasising the role of peroxiredoxins and integrated defence mechanisms which allow useful roles for ROS, and the second containing new information on the role of fruits, vegetables, and vitamins in health and disease. This new edition also contains expanded coverage of the mechanisms of oxidative damage to lipids, DNA, and proteins (and the repair of such damage), and the roles played by reactive species in signal transduction, cell survival, death, human reproduction, defence mechanisms of animals and plants against pathogens, and other important biological events. The methodologies available to measure reactive species and oxidative damage (and their potential pitfalls) have been fully updated, as have the topics of phagocyte ROS production, NADPH oxidase enzymes, and toxicology. There is a detailed and critical evaluation of the role of free radicals and other reactive species in human diseases, especially cancer, cardiovascular, chronic inflammatory and neurodegenerative diseases. New aspects of ageing are discussed in the context of the free radical theory of ageing. This book is recommended as a comprehensive introduction to the field for students, educators, clinicians, and researchers. It will also be an invaluable companion to all those interested in the role of free radicals in the life and biomedical sciences.

Global Health Governance and Policy - Eduardo Missoni 2019-04-01

Global Health Governance and Policy outlines the fundamentals of global health, a key element

of sustainable development. Taking an interdisciplinary approach, it explores the relationship between the globalization process and global health's social, political, economic and environmental determinants. It points the attention to the actors and forces that shape global policies and actions with an impact on peoples' health in an increasingly complex global governance context. Topics discussed include: The relationship between globalization and the determinants of health The essentials of global health measurements The evolution of public health strategies in the context of the global development agenda The actors and influencers of global health governance The role of health systems The dynamics and mechanisms of global health financing and Development Assistance for Health Career opportunities in global health governance, management and policy Looking in depth at some of the more significant links between neoliberal globalization, global policies and health, Global Health Governance and Policy: An Introduction discusses some specific health issues of global relevance such as changes in the ecosystem, epidemics and the spread of infectious diseases, the global transformation of the food system, the tobacco epidemic, human migration, macroeconomic processes and global financial crisis, trade and access to health services, drugs and vaccines, and eHealth and the global "health 4.0" challenge. Written by a team of experienced practitioners, scientists and teachers, this textbook is ideal for students of all levels and professionals in a variety of disciplines with an interest in global health.

Metric Handbook - Pamela Buxton 2018-02-23
Significantly updated in reference to the latest construction standards and new building types Sustainable design integrated into chapters throughout Over half of the entire book has now been updated since 2015 Over 100,000 copies sold to successive generations of architects and designers This book belongs in every design office. The Metric Handbook is the major handbook of planning and design data for architects and architecture students. Covering basic design data for all the major building types it is the ideal starting point for any project. For each building type, the book gives the basic design requirements and all the principal

dimensional data, and succinct guidance on how to use the information and what regulations the designer needs to be aware of. As well as buildings, the Metric Handbook deals with broader aspects of design such as materials, acoustics and lighting, and general design data on human dimensions and space requirements. The Metric Handbook is the unique reference for solving everyday planning problems.

Multiscale Modeling From Macromolecules to Cell: Opportunities and Challenges of Biomolecular Simulations - Valentina Tozzini
2020-10-27

This eBook is a collection of articles from a Frontiers Research Topic. Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series: they are collections of at least ten articles, all centered on a particular subject. With their unique mix of varied contributions from Original Research to Review Articles, Frontiers Research Topics unify the most influential researchers, the latest key findings and historical advances in a hot research area! Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office: frontiersin.org/about/contact.

Integrative Structural Biology with Hybrid Methods - Haruki Nakamura 2019-01-08

This book presents a new emerging concept of "Integrative Structural Biology". It covers current trends of the molecular and cellular structural biology, providing new methods to observe, validate, and keep the structural models of the large cellular machines with recent scientific results. Structures of very large macromolecular machines in cells are being determined by combining observations from complementary experimental methods. Thus, this volume presents the each methods such as X-ray crystallography, NMR spectroscopy, 3DEM, small-angle scattering (SAS), FRET, crosslinking, and enables the readers to understand the hybrid methods. This book discusses how those integrative models should be represented, validated and archived. A unique highlight of this book is discussion of the data validation and archive, which are big problems in this field along with the progress of this field. The researchers in biology will be interested in this book as a guide book for

learning the current structure biology, but also those in structure biology may use this book as a comprehensive reference to cover broad topics.

The Millionaire Fastlane - MJ DeMarco
2011-01-04

10TH ANNIVERSARY EDITION Is the financial plan of mediocrity -- a dream-stealing, soul-sucking dogma known as "The Slowlane" your plan for creating wealth? You know how it goes; it sounds a lil something like this: "Go to school, get a good job, save 10% of your paycheck, buy a used car, cancel the movie channels, quit drinking expensive Starbucks mocha lattes, save and penny-pinch your life away, trust your life-savings to the stock market, and one day, when you are oh, say, 65 years old, you can retire rich." The mainstream financial gurus have sold you blindly down the river to a great financial gamble: You've been hoodwinked to believe that wealth can be created by recklessly trusting in the uncontrollable and unpredictable markets: the housing market, the stock market, and the job market. This impotent financial gamble dubiously promises wealth in a wheelchair -- sacrifice your adult life for a financial plan that reaps dividends in the twilight of life. Accept the Slowlane as your blueprint for wealth and your financial future will blow carelessly asunder on a sailboat of HOPE: HOPE you can find a job and keep it, HOPE the stock market doesn't tank, HOPE the economy rebounds, HOPE, HOPE, and HOPE. Do you really want HOPE to be the centerpiece for your family's financial plan? Drive the Slowlane road and you will find your life deteriorate into a miserable exhibition about what you cannot do, versus what you can. For those who don't want a lifetime subscription to "settle-for-less" and a slight chance of elderly riches, there is an alternative; an expressway to extraordinary wealth that can burn a trail to financial independence faster than any road out there. Why jobs, 401(k)s, mutual funds, and 40-years of mindless frugality will never make you rich young. Why most entrepreneurs fail and how to immediately put the odds in your favor. The real law of wealth: Leverage this and wealth has no choice but to be magnetized to you. The leading cause of poorness: Change this and you change everything. How the rich really get rich - and no, it has nothing to do with a paycheck or a 401K match. Why the guru's grand deity -

compound interest - is an impotent wealth accelerator. Why the guru myth of "do what you love" will most likely keep you poor, not rich. And 250+ more poverty busting distinctions... Demand the Fastlane, an alternative road-to-

wealth; one that actually ignites dreams and creates millionaires young, not old. Change lanes and find your explosive wealth accelerator. Hit the Fastlane, crack the code to wealth, and find out how to live rich for a lifetime.