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Arduino Cookbook - Michael Margolis 2012
Presents an introduction to the open-source electronics prototyping platform.

The Bitterest Pills - J. Moncrieff 2013-09-15
A challenging reappraisal of the history of antipsychotics, revealing how they were transformed from neurological poisons into magical cures, their benefits exaggerated and their toxic effects minimized or ignored.

Maritime Psychology - Malcolm MacLachlan 2017-01-21

This first-of-its-kind volume assembles current research on psychosocial issues and behavioral and safety concerns inherent in life and careers at sea. Focusing mainly on the commercial maritime transport sector, it sets out the basic concepts of maritime psychology in the contexts of health and occupational psychology and illustrates more expansive applications across nautical domains. A systems perspective and detailed case studies spotlight unique challenges to mariners' work performance, personal and environmental health and safety; it also provides support for psychometric assessment of seafarers, and describes emerging uses for the healing properties of the sea and sailing. The book is a springboard for continued research and practice development, further interaction between psychology and the maritime world, and the continued broadening and deepening of the field. Among the topics covered: · Positive psychology and wellbeing at sea. · Transferring learning across safety critical industries. · Occupational stress in seafarers. · The psychology of ship architecture and design. · Motion sickness susceptibility and management at sea. · Risk communication during a maritime

disaster. Written with clarity and nuance reflecting the vastness of marine experience, Maritime Psychology will be of interest to lecturers, researchers, and students of occupational and health psychology and maritime science, and to social and health scientists and practitioners in these and related fields.

Standard Metropolitan Statistical Areas - United States. Bureau of the Budget. Office of Statistical Standards

Byte - 1985-04

Molecular Devices and Machines - Vincenzo Balzani 2006-03-06

The miniaturization of bulky devices and machines is a process that confronts us on a daily basis. However, nanoscale machines with varied and novel characteristics may also result from the enlargement of extremely small building blocks, namely individual molecules. This bottom-up approach to nanotechnology is already being pursued in information technology, with many other branches about to follow. - Written by a team of experienced authors headed by Vincenzo Balzani, one of the pioneers in the development of molecular machines - Covers such diverse aspects as sensors, memory components, solar energy conversion, biomolecules as molecular machines, and much more - Presented in a lucid style and didactically structured, with both the expert and the newcomer in mind - Includes a glossary of terms and numerous references to the recent literature Be among the first to explore the fascinating possibilities of this

future-oriented technology! A must-have for every chemist and materials scientist with an interest in nanotechnology.

Internal Revenue News - United States.
Internal Revenue Service 1927

The Aspergilli - Gustavo H. Goldman 2007-12-07

With high-quality genome sequences for the important and ubiquitous Aspergilli now available, increased opportunities arise for the further understanding of its gene function, interaction, expression, and evolution. The Aspergilli: Genomics, Medical Aspects, Biotechnology, and Research Methods provides a comprehensive analysis of the research that reveals the main biological attributes of these species. The co-editors are a particularly proficient and prolific pair with long track records of scientific productivity. The book sets the stage with a discussion of basic biology, examining the data on the structure of genomes and comparing the genetic map and annotation methodology. It includes a comparison of metabolic abilities among different Aspergillus spp. and other species, then covers areas such as comparative biology, pathogenic properties, and metabolic capabilities of the Aspergilli. The book reviews established techniques and new methodologies for the post-genomic era in Aspergillus spp. It comes with a CD containing color illustrations to supplement the text. Filling the need for centralized information on a genus that has important economic impacts on agriculture, human health, industry, and pharmacology, the book presents a wide range of data, collected and arranged into one convenient resource. Written by a team of international experts, this is the first in-depth and exhaustive analysis of the genomics of the Aspergilli.

Handbook of Mixed Membership Models and Their Applications - Edoardo M. Airoldi
2014-11-06

In response to scientific needs for more diverse and structured explanations of statistical data, researchers have discovered how to model individual data points as belonging to multiple groups. Handbook of Mixed Membership Models and Their Applications shows you how to use these flexible modeling tools to uncover hidden patterns in modern high-dimensional

multivariate data. It explores the use of the models in various application settings, including survey data, population genetics, text analysis, image processing and annotation, and molecular biology. Through examples using real data sets, you'll discover how to characterize complex multivariate data in: Studies involving genetic databases Patterns in the progression of diseases and disabilities Combinations of topics covered by text documents Political ideology or electorate voting patterns Heterogeneous relationships in networks, and much more The handbook spans more than 20 years of the editors' and contributors' statistical work in the field. Top researchers compare partial and mixed membership models, explain how to interpret mixed membership, delve into factor analysis, and describe nonparametric mixed membership models. They also present extensions of the mixed membership model for text analysis, sequence and rank data, and network data as well as semi-supervised mixed membership models.

Cambridge International AS and a Level Mathematics Pure Mathematics 1 Question and Workbook - Greg Port 2018-08-31

We are working with Cambridge Assessment International Education to gain endorsement for this forthcoming series. Reinforce learning and deepen understanding of the key concepts covered in the latest syllabus; an ideal course companion or homework book for use throughout the course. - Develop and strengthen skills and knowledge with a wealth of additional exercises that perfectly supplement the Student's Book. - Build confidence with extra practice for each lesson to ensure that a topic is thoroughly understood before moving on. - Ensure students know what to expect with hundreds of rigorous practice and exam-style questions. - Keep track of students' work with ready-to-go write-in exercises. - Save time with all answers available in the Online Teacher's Guide. This book covers the syllabus content for Pure Mathematics 1, including quadratics, functions, coordinate geometry, circular measure, trigonometry, series, differentiation and integration. Available in this series: Five textbooks fully covering the latest Cambridge International AS & A Level Mathematics syllabus (9709) are accompanied by a Workbook, and

Student and Whiteboard eTextbooks. Pure Mathematics 1: Student Textbook (ISBN 9781510421721), Student eTextbook (ISBN 9781510420762), Whiteboard eTextbook (ISBN 9781510420779), Workbook (ISBN 9781510421844) Pure Mathematics 2 and 3: Student Textbook (ISBN 9781510421738), Student eTextbook (ISBN 9781510420854), Whiteboard eTextbook (ISBN 9781510420878), Workbook (ISBN 9781510421851) Mechanics: Student Textbook (ISBN 9781510421745), Student eTextbook (ISBN 9781510420953), Whiteboard eTextbook (ISBN 9781510420977), Workbook (ISBN 9781510421837) Probability & Statistics 1: Student Textbook (ISBN 9781510421752), Student eTextbook (ISBN 9781510421066), Whiteboard eTextbook (ISBN 9781510421097), Workbook (ISBN 9781510421875) Probability & Statistics 2: Student Textbook (ISBN 9781510421776), Student eTextbook (ISBN 9781510421158), Whiteboard eTextbook (ISBN 9781510421165), Workbook (9781510421882)

The Silent Oath - Michael L. Lewis 2022-07-28
The Silent Oath is the fourth in The Oath series that depicts life at Blackleigh Public School, and also serves as a stand-alone novel. 1958.

Jonathan Simon, 17, is in his fourth year at Blackleigh. Self-conscious about his appointment as one of five Prefects in Trafalgar House, he's apprehensive as to whether he has what it takes to carry out his responsibilities. Jonathan knows: 1) The school code of conduct mandates no snitching on anyone. 2) The student Prefects have absolute power to discipline. 3) Mr. Phillip Temple the new Headmaster is determined to revise the school admission policy to achieve a more even playing field in education. The pressure mounts in an unforgettable school trip to Paris, prejudice spreading through the school and to the school's Board of Governors as they ruthlessly oppose the new Head. They will stop at nothing to get their way. In his effort to strive to support the Headmaster's goals, Jonathan will have to overcome far more than an oath of silence executed by his enemies to prevail...

Paul J. Crutzen and the Anthropocene: A New Epoch in Earth's History - Susanne Benner 2021

This book outlines the development and perspectives of the Anthropocene concept by

Paul J. Crutzen and his colleagues from its inception to its implications for the sciences, humanities, society and politics. The main text consists primarily of articles from peer-reviewed scientific journals and other scholarly sources. It comprises selected articles on the Anthropocene published by Paul J. Crutzen and a selection of related articles, mostly but not exclusively by colleagues with whom he collaborated closely. " In the year 2000 Nobel Laureate Paul J. Crutzen proposed the Anthropocene concept as a new epoch in Earth's history " Comprehensive collection of articles on the Anthropocene by Paul J. Crutzen and his colleagues " Unique primary research literature and Crutzen's comprehensive bibliography " Paul Crutzen's scientific investigations into human influences on atmospheric chemistry and physics, the climate and the Earth system, leading to the conception of the Anthropocene " Reflections on the Anthropocene and its implications " Bibliometric review of the spread of the use of the Anthropocene concept in the Natural and Social Sciences, Humanities and Law.

The Sava River - Radmila Milačić 2014-11-05
This volume provides a comprehensive overview of environmental aspects of the Sava River, which is the greatest tributary to the Danube River and the major drainage river system of South Eastern Europe. Hydroelectric power plants, river traffic, intensive agricultural activities, heavy industry and floods have considerable influence on the environment and biota in the basin. Summarizing the results that were gathered in the course of EU, bilateral and national projects, the book highlights the most important stressors and helps readers to better understand the impact of anthropogenic activities on the function of river basins. Topics include: transboundary water cooperation between the riparian countries; climate change projection, including its impact on flood hazards; evaluation of anthropogenic pollution sources; pollution of sediments, metal bioavailability and ecotoxicological and microbiological characterization of the river. The biological part also addresses quality aspects related to wildlife in river aquatic ecosystems (algae, macrophytes, zooplankton, macroinvertebrates and fish) and riparian ecosystems (amphibians, reptiles, birds and mammals). The general state of biodiversity

and pressures caused by invasive aquatic species are also discussed.

Commentaries on the Law of Evidence in Civil Cases - Burr W. Jones 1926

Popular Electronics - 1979

Terrestrial Heat Flow - William Hung Kan Lee 1965

Evolution of Cardio-Metabolic Risk from Birth to Middle Age - Gerald S. Berenson 2011-07-09

That precursors of adult coronary artery disease, hypertension, and type II diabetes begin in childhood have been clearly established by the Bogalusa Heart Study. This unique research program has been able to follow a biracial (black/white) population over 35 years from childhood through mid-adulthood to provide perspectives on the natural history of adult heart diseases. Not only do these observations describe trajectories of cardio-metabolic risk variables leading to these diseases but provide a rationale for the need to begin prevention beginning in childhood. The trajectories of the burden of cardio-metabolic risk variables in the context of their fetal origin and chromosome telomere dynamics provide some insight into the metabolic imprinting in utero and aging process. The observed racial contrasts on cardio-metabolic risk variables implicate various biologic pathways interacting with environment contributing to the high morbidity and mortality from related diseases in our population. To address the seriousness of the onset of cardiovascular disease in youth, approaches to primordial prevention are described focussing on childhood health education as an important aspect of Preventive Cardiology.

Biomedical Natural Language Processing - Kevin Bretonnel Cohen 2014-02-15

Biomedical Natural Language Processing is a comprehensive tour through the classic and current work in the field. It discusses all subjects from both a rule-based and a machine learning approach, and also describes each subject from the perspective of both biological science and clinical medicine. The intended audience is readers who already have a background in natural language processing, but a clear introduction makes it accessible to readers from

the fields of bioinformatics and computational biology, as well. The book is suitable as a reference, as well as a text for advanced courses in biomedical natural language processing and text mining.

Disease-Modifying Targets in Neurodegenerative Disorders - Veerle Baekelandt 2017-03-31

Disease-Modifying Targets in Neurodegenerative Disorders: Paving the Way for Disease-Modifying Therapies examines specific neurodegenerative disorders in comprehensive chapters written by experts in the respective fields. Each chapter contains a summary of the disease management field, subsequently elaborating on the molecular mechanisms and promising new targets for disease-modifying therapies. This overview is ideal for neuroscientists, biomedical researchers, medical doctors, and caregivers, not only providing readers with a summary of the way patients are treated today, but also offering a glance at the future of neurodegenerative disorder treatment. Provides a comprehensive overview of how key proteins in neurodegenerative disorders can be used as targets to modify disease progress Summarizes how patients are treated today, providing a glance at future disease management Includes intelligible and informative information that is perfect for non-specialists, medical practitioners, and scientists Written and peer reviewed by outstanding scientists in their respective fields

Emerging Trends in Cell and Gene Therapy - Michael K. Danquah 2013-06-14

Examples from various organs and diseases illustrate the potential benefit obtained when both therapeutic approaches are combined with delivery strategies. Representing the combined effort of several leading international research and clinical experts, this book, *Emerging Trends in Cell and Gene Therapy*, provides a complete account on and brings into sharp focus current trends and state-of-the-art in important areas at the interface of cell- and gene-based therapies. This book addresses the current fragmented understanding regarding these two research areas and fills the vast unmet educational need and interest of both students and researchers in academia and industry. Main features of the book: · Biological aspects of stem cell sources, differentiation and engineering. · Application of microfluidics to study stem cell dynamics ·

Potential clinical application of stem cells and gene therapy to specific human disease. · Utilization of biomaterials and stem cells in regenerative medicine with particular emphasis on spinal cord repair, ligament and bone tissue engineering. · Biomimetic multiscale topography for cell alignment.

Cotton Production and Distribution - 1918

Plasma Catalysis - Xin Tu 2019-11-21

This book provides a comprehensive overview of the field of plasma catalysis, regarded as a promising alternative to thermal processes for energy and environmental applications. It bridges the gap between the plasma and catalysis research communities, covering both the fundamentals of plasma catalysis and its application in environmental and energy research. The first section of the book offers a broad introduction to plasma catalysis, covering plasma-catalyst systems, interactions, and modeling. The core of the book then focuses on different applications, describing a wide range of plasma-catalytic processes in catalyst synthesis, environmental clean-up, greenhouse gas conversion and synthesis of materials for energy applications. Chapters cover topics ranging from removal of NO_x and VOCs to conversion of methane, carbon dioxide and the reforming of ethanol and methanol. Written by a group of world-leading researchers active in the field, the book forms a valuable resource for scientists, engineers and students with different research backgrounds including plasma physics, plasma chemistry, catalysis, energy, environmental engineering, electrical engineering and material engineering.

Corrosion Analysis - Michael Dornbusch
2018-10-09

The book gives an overview about all relevant electrochemical and spectroscopic methods used in corrosion research. Besides the correct use and interpretation, the methods are correlated with industrial test methods for organic coatings and conversion layers.

5G-Enabled Internet of Things - Yulei Wu
2019-05-29

How the enabling technologies in 5G as an integral or as a part can seamlessly fuel the IoT revolution is still very challenging. This book presents the state-of-the-art solutions to the

theoretical and practical challenges stemming from the integration of 5G enabling technologies into IoTs in support of a smart 5G-enabled IoT paradigm, in terms of network design, operation, management, optimization, privacy and security, and applications. In particular, the technical focus covers a comprehensive understanding of 5G-enabled IoT architectures, converged access networks, privacy and security, and emerging applications of 5G-enabled IoT.

Receptor Tyrosine Kinases: Family and Subfamilies - Deric L. Wheeler 2015-07-31

This book devotes a chapter to each RTK family and the multiple receptors within each family, thoroughly covering all of the RTKs. The chapters all follow the same structure, presenting this essential information in an accessible and user-friendly format. Each chapter covers one specific family of receptors and begins with a general introduction to that family and a comprehensive discussion of that receptor's family in development and human disease. Following are in-depth analyses of each family's receptors with discussions on the gene, protein, ligands, activation, and signaling pathways along with discussion of receptor processing and signal attenuation. Further, cross talk with other receptors systems, post-translational modification and specific unique characteristics to each RTK are discussed. Because it isolates and explains each family, this book is an essential companion volume to *Receptor Tyrosine Kinases: Structure, Functions and Role in Human Disease*, by the same authors, which talks about RTKs more generally and without the family-by-family detail.

Machine Learning and Big Data Analytics (Proceedings of International Conference on Machine Learning and Big Data Analytics (ICMLBDA) 2021) - Rajiv Misra
2021-09-29

This edited volume on machine learning and big data analytics (Proceedings of ICMLBDA 2021) is intended to be used as a reference book for researchers and practitioners in the disciplines of computer science, electronics and telecommunication, information science, and electrical engineering. Machine learning and Big data analytics represent a key ingredients in the industrial applications for new products and services. Big data analytics applies machine

learning for predictions by examining large and varied data sets—i.e., big data—to uncover hidden patterns, unknown correlations, market trends, customer preferences, and other useful information that can help organizations make more informed business decisions.

Materials and Processes - Barrie D. Dunn

2015-12-29

The objective of this book is to assist scientists and engineers select the ideal material or manufacturing process for particular applications; these could cover a wide range of fields, from light-weight structures to electronic hardware. The book will help in problem solving as it also presents more than 100 case studies and failure investigations from the space sector that can, by analogy, be applied to other industries. Difficult-to-find material data is included for reference. The sciences of metallic (primarily) and organic materials presented throughout the book demonstrate how they can be applied as an integral part of spacecraft product assurance schemes, which involve quality, material and processes evaluations, and the selection of mechanical and component parts. In this successor edition, which has been revised and updated, engineering problems associated with critical spacecraft hardware and the space environment are highlighted by over 500 illustrations including micrographs and fractographs. Space hardware captured by astronauts and returned to Earth from long durations in space are examined. Information detailed in the Handbook is applicable to general terrestrial applications including consumer electronics as well as high reliability systems associated with aeronautics, medical equipment and ground transportation. This Handbook is also directed to those involved in maximizing the reliability of new materials and processes for space technology and space engineering. It will be invaluable to engineers concerned with the construction of advanced structures or mechanical and electronic sub-systems.

Prevention and Treatment of Age-related Diseases - Suresh I.S. Rattan 2007-05-09

This book offers a broad-ranging assessment of current efforts of the molecular, cellular, hormonal, nutritional and lifestyle strategies being tested and applied by biogerontologists in the search for effective means of intervention,

prevention and treatment of age-related diseases, and for achieving healthy old age. Employing a semi-academic style, the book presents data from experimental systems, while focusing primarily on their applications to humans in the prevention and treatment of age-related impairments.

Reporting company section - United States. Environmental Protection Agency. Office of Toxic Substances 1979

Multimodal Concepts for Integration of Cytotoxic Drugs - Martin J. Brown 2006-08-06

The first part of this book summarizes the rationale and the preclinical data for combined treatment with ionizing radiation and pharmaceutical agents. Individual chapters focus on forms of combined treatment, with due consideration being given to a range of drugs and to emerging combinations with small molecules and antibodies. The second part comprises a series of disease-specific chapters in which the clinical results of combined modality treatment are presented.

Aquaculture Virology - Frederick S. B. Kibenge 2016-07-11

To date textbooks on viruses infecting fish, crustaceans and molluscs, the three main aquatic animal farmed groups, have been on the whole “diseases-centric and individual viral diseases selected based on “epizoo-centric approaches with little to no coverage of the basic biology of the viruses, in contrast to textbooks on viruses infecting terrestrial - farmed, pet, and free-range (wild) - animals and humans. Despite considerable advances in animal virology in recent years coupled with an economically important global aquaculture industry, knowledge of viruses of animal aquaculture is still sparse and in some cases outdated although these viruses are closely related to well-known virus families. The last book in fish virology (Fish viruses and fish viral diseases 1988, Wolf, K.) was published in the 1980s. A lot of work has been done on fish viruses and many new aquatic animal viruses continue to be discovered. Aquaculture Virology provides the current state of knowledge of aquatic animal viruses within the current virus classification and taxonomic context thereby allowing the reader to draw on the principles of

general virology. This book is a systematic and concise resource useful to anyone involved with or looking to move into aquaculture and fisheries. Clinical veterinarians, aquaculture disease practitioners, biologists, farmers, and all those in industry, government or academia who are interested in aquatic animal virology will find this book extremely useful. Provides unique comprehensive information on animal viruses for aquaculture and fisheries Presents high quality illustrations of viral structure, diagrams of viral disease processes, gross pathology and histopathology lesions, and summary tables to aid in understanding Describes aquatic animal viruses of the three major aquatic animals, fish, crustaceans, and molluscs, within the current virus classification and taxonomic context thereby allowing the reader to draw on the principles of general virology

Radio-electronics - 1985

Escherichia Coli and Salmonella - Frederick Carl Neidhardt 1996

Mathematical and Statistical Estimation Approaches in Epidemiology - Gerardo

Chowell 2009-06-06

Mathematical and Statistical Estimation Approaches in Epidemiology compiles theoretical and practical contributions of experts in the analysis of infectious disease epidemics in a single volume. Recent collections have focused in the analyses and simulation of deterministic and stochastic models whose aim is to identify and rank epidemiological and social mechanisms responsible for disease transmission. The contributions in this volume focus on the connections between models and disease data with emphasis on the application of mathematical and statistical approaches that quantify model and data uncertainty. The book is aimed at public health experts, applied mathematicians and scientists in the life and social sciences, particularly graduate or advanced undergraduate students, who are interested not only in building and connecting models to data but also in applying and developing methods that quantify uncertainty in the context of infectious diseases. Chowell and Brauer open this volume with an overview of the classical disease transmission models of

Kermack-McKendrick including extensions that account for increased levels of epidemiological heterogeneity. Their theoretical tour is followed by the introduction of a simple methodology for the estimation of, the basic reproduction number, R_0 . The use of this methodology is illustrated, using regional data for 1918-1919 and 1968 in uenza pandemics.

Indicators of Education Status and Trends - 1985

Clinical Reasoning - Tracy Levett-Jones

2017-09-08

An Australian text designed to address the key area of clinical reasoning in nursing practice. Using a series of authentic scenarios, Clinical Reasoning guides students through the clinical reasoning process while challenging them to think critically about the nursing care they provide. With scenarios adapted from real clinical situations that occurred in healthcare and community settings, this edition continues to address the core principles for the provision of quality care and the prevention of adverse patient outcomes.

Cost Management - Edward Blocher 2010

Covers the strategic management topics in cost accounting. This title helps students to understand about the management and the role of cost accounting in helping an organization succeed. It addresses issues such as: How does a firm compete? and What type of cost management information is needed for a firm to succeed?

Folklife Sourcebook - Peter Bartis 1994

New Advances in Mechanisms, Transmissions and Applications - Victor

Petuya 2013-08-04

The Second Conference on Mechanisms, Transmissions and Applications - MeTrApp 2013 was organised by the Mechanical Engineering Department of the University of the Basque Country (Spain) under the patronage of the IFToMM Technical Committees Linkages and Mechanical Controls and Micromachines and the Spanish Association of Mechanical Engineering. The aim of the workshop was to bring together researchers, scientists, industry experts and students to provide, in a friendly and stimulating environment, the opportunity to exchange know-how and promote collaboration in the field of

Mechanism and Machine Science. The topics treated in this volume are mechanism and machine design, biomechanics, mechanical transmissions, mechatronics, computational and experimental methods, dynamics of mechanisms and micromechanisms and microactuators.

Evolutionary Computing and Mobile Sustainable Networks - V. Suma 2020-07-31

This book features selected research papers presented at the International Conference on Evolutionary Computing and Mobile Sustainable Networks (ICECMSN 2020), held at the Sir M.

Visvesvaraya Institute of Technology on 20-21 February 2020. Discussing advances in evolutionary computing technologies, including swarm intelligence algorithms and other evolutionary algorithm paradigms which are emerging as widely accepted descriptors for mobile sustainable networks virtualization, optimization and automation, this book is a valuable resource for researchers in the field of evolutionary computing and mobile sustainable networks.