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Fungal Biodiversity - Pedro W. Crous 2009

This book focuses on techniques for isolation, cultivation, molecular and morphological study of fungi and yeasts. It has been developed as a general text, which is based on the annual mycology course given at the CBS-KNAW Fungal Biodiversity Centre (Centraalbureau voor

Schimmelcultures). It provides an introductory text to systematic mycology.

Imaging in Nephrology

Antonio Granata 2021-04-29

This book is a wide-ranging guide to current and emerging applications of ultrasonography within nephrology that aims to provide readers with a sound understanding of the rationale for the use of ultrasound

techniques in various disease settings, for example, complications following renal transplantation, arteriovenous fistulas, renal artery stenosis, nonstenotic renal artery pathology, renal vein pathology, aortic disease, and acute renal failure. Particular emphasis is placed on newer applications, such as those involving elastosonography, contrast-enhanced ultrasonography, and color Doppler imaging. There is no doubt that ultrasound techniques can improve the standard of care in nephrology, from vascular access planning to management of uremic complications. Nevertheless, many nephrologists continue to delegate the performance of ultrasonography to radiologists or other colleagues, which is especially regrettable given the advent of affordable, portable ultrasound scanners. This book will be of value for all clinicians interested in the role of ultrasound techniques in nephrology and will be especially useful for nephrologists seeking to

incorporate ultrasonography into their practice.

Herom - Jeroen Poblome
2013-02-21

Volume 1 HEROM is an annual journal presenting innovative contributions to the study of material culture produced, exchanged, and consumed within the spheres of the Hellenistic kingdoms and the Roman world. The journal publishes papers in the full range of the scholarly field and in all relevant academic disciplines within the arts, humanities, social sciences, and environmental sciences. HEROM creates a bridge between material culture specialists and the wider scientific community, with an interest in how humans interacted with and regarded artifacts from the late fourth century B.C. to the seventh century A.D.

A New Republic of Letters -
Jerome McGann 2014-03-17

Jerome McGann's manifesto argues that the history of texts and how they are preserved and accessed for interpretation are the overriding subjects of

humanist study in the digital age. Theory and philosophy no longer suffice as an intellectual framework. But philology--out of fashion for decades--models these concerns with surprising fidelity.

Earthquake Resistant Engineering Structures X -

C.A. Brebbia 2015-09-15

Containing the latest research on preparation for and mitigation of future earthquakes, this book addresses an area of increasing importance to many areas around the world. It contains research presented at the ninth and latest in a series of biennial conferences on the topic organised by the Wessex Institute. As world population has concentrated in urban areas, we have seen the consequences of natural disasters take an ever higher toll in human life and property. Adding to this trend, earthquake activity is being registered in areas that were not previously very active, thus the need for research into the application of technological advances to the specific area of

earthquake engineering. This volume presents those advances. The papers cover Seismic Isolation and Energy Dissipation; Building Performance During Earthquakes; Nonlinear Numerical Analysis; Performance Based Design; Experimental Studies; Seismic Hazard Evaluation and Microzoning for Structural Design; Seismic Hazard Assessment; Case Studies.

Values and Functions for Future Cities Giulio Mondini 2019-08-06

This book features a selection of the best papers presented at two SIEV seminars held in Venice, Italy, in September 2017 and 2018, in the context of the Urbanpromo Green events. Bringing together experts from a diverse range of fields - economics, appraisal, architecture, energy, urban planning, sociology, and the decision sciences - and government representatives, the seminars encouraged reflections on the role of future cities in terms of sustainable development, with a particular

focus on improving collective and individual well-being. The book provides a multidisciplinary approach to contemporary green urban agendas and urban sustainability, and addresses the demand for policies and strategies to strengthen resilience through concrete measures to reduce energy consumption, mitigate pollution, promote social inclusion and create urban identity.

Mycotoxins in Fruits and Vegetables - R. Barkai-Golan
2011-09-02

Mycotoxins are toxins produced by aerobic, microscopic fungus under special conditions of moisture and temperature. They colonize in a variety of foods from harvest to the grocer.

Mycotoxins have gained world wide interest in recent years with the revelation of the effect of these toxins on health. A current example is the presence of ochratoxin A, a human carcinogen and nephrotoxin, in wines. The increased concern about fruit

safety has led to increased studies throughout the world and enhanced awareness for stringent regulations governing mycotoxin limits in food. Presented in three defined sections, this is the first book to provide comprehensive analysis of the main mycotoxins contaminating fruits and vegetables and their derived products. The first section provides a safety evaluation of mycotoxins in fruits and vegetables, details regarding factors affecting mycotoxin production and diffusion in the fruit tissue, and recent methods for detection of mycotoxigenic fungi and mycotoxins produced by the fungi. The second part takes a critical look at the main individual mycotoxins and the third section focuses on approaches for prevention and control. * The first book dedicated to mycotoxins in fruits and vegetables * Presents mycological, mycotoxicological and phytopathological aspects of fruits and vegetables * Includes an analysis of detection,

prevention and control methods for mycotoxigenic fungi and the mycotoxins they produce * Provides a complete risk assessment and safety evaluation of mycotoxins in perishable produce

Trondhjemites, Dacites, and Related Rocks F. Barker
2013-10-22

Developments in Petrology, 6: Trondhjemites, Dacites, and Related Rocks focuses on the geology, geochemistry, and petrology of several kinds of trondhjemites, dacites, and genetically related rocks. The selection first elaborates on the definition, environment, and hypotheses of origin of trondhjemite; a review of the mineralogy and chemistry of tertiary-recent dacitic, latitic, rhyolitic, and related salic volcanic rocks; and some trace elements in trondhjemites and their implications to magma genesis and paleotectonic setting. Discussions focus on tectonic environments and trace element patterns, selection and reliability of trace elements, interrelationships between mineralogy and

chemistry, and regional variations of dacitic and rhyolitic magmas. The publication then tackles strontium isotope geochemistry of late Archean to late Cretaceous tonalites and trondhjemites; Archean gray gneisses and the origin of the continental crust in West Greenland; and metamorphic development of early Archean tonalitic and trondhjemitic gneisses in Saglek Area, Labrador. The book examines the petrology, geochemistry, and origin of the Sparta quartz diorite-trondhjemite complex; reconnaissance geochemistry of Devonian island-arc volcanic and intrusive rocks in West Shasta District, California; and origin of the Twillingate trondhjemite in North-Central Newfoundland. The selection is highly recommended for geologists and geochemists wanting to explore trondhjemites, dacites, and genetically related rocks.

Handbook of Sustainable Engineering - Joanne Kauffman
2013-04-30

"The efficient utilization of

energy, sustainable use of natural resources, and large-scale adoption of sustainable technologies is the key to a sustainable future. The Handbook of Sustainable Engineering provides tools that will help us achieve these goals". Nobel Prize Winner Dr. R.K. Pachauri, Chairman, UN Intergovernmental Panel on Climate Change As global society confronts the challenges of diminishing resources, ecological degradation, and climate change, engineers play a crucial role designing and building technologies and products that fulfil our needs for utility and sustainability. The Handbook of Sustainable Engineering equips readers with the context and the best practices derived from both academic research and practical examples of successful implementations of sustainable technical solutions. The handbook's content revolves around the two themes, new ways of thinking and new business models, including sustainable

production, products, service systems and consumption while addressing key assets based on new materials, optimized resource management, and new energy sources.

Contributions reflect a focus on state-of-the art insights into employing smart materials, recycling e-waste, water utilization, solar cells, product lifecycles, transportation and reverse manufacturing. Supportive of this, underlying issues such as engineering education, consumer behaviour and the regulatory climate complete the handbook's comprehensive treatment of the problems and most promising solutions.

Rock Physics and Natural Hazards - Sergio Vinciguerra
2009-11-28

Natural hazards events such as earthquakes or volcanic eruptions involve activation of coupled thermo-hydro-chemo-mechanical processes in rocks. The present book assembles unpublished contributions to the 7th Euro-Conference on Rock Physics and Geomechanics, held in 2007 in

Erice, Italy. It presents new laboratory data, theoretical and numerical rock physics models and field observations relevant to the study of natural hazards. In particular, several papers are devoted to rock failure and explore the relationship between the competing deformation micro-mechanisms. Several others investigate shear-induced anisotropy of mechanical and/or transport properties, both in large-scale geologic objects and in laboratory samples. The remaining papers treat various aspects of rock physics and their industrial applications such as geothermics and reservoir characterization.

Advanced Time Series Analysis in Geosciences - Flavio Cannavo' 2021-05-12

Postharvest Decay - Silvia Bautista-Baños 2014-05-14
Written by a diverse group of research professionals, *Postharvest Decay: Control Strategies* is aimed at a wide audience, including researchers involved in the

study of postharvest handling of agricultural commodities, and undergraduate and graduate students researching postharvest topics. Growers, managers, and operators working at packinghouses and storage, retail, and wholesale facilities can also benefit from this book. The information in this book covers a wide range of topics related to selected fungi, such as taxonomy, infection processes, economic importance, causes of infection, the influence of pre-harvest agronomic practices and the environment, the effect of handling operations, and the strategic controls for each host-pathogen, including traditional and non-traditional alternatives. Includes eleven postharvest fungi causing serious rots in numerous fruits and vegetables Offers selected microorganisms including pathogens of commercially important tropical, subtropical and temperate crops worldwide, such as tomatoes, pears, apples, peaches, citrus, banana, papaya, and mango, among others Presents content

developed by recognized and experienced high-level scientists, working in the postharvest pathology area worldwide Provides basic information about each fungus, pre- and postharvest factors that contribute to infection and control measurements, including the use of chemicals and non-traditional methods

Machine Learning for Computer Vision - Roberto Cipolla 2012-07-27

Computer vision is the science and technology of making machines that see. It is concerned with the theory, design and implementation of algorithms that can automatically process visual data to recognize objects, track and recover their shape and spatial layout. The International Computer Vision Summer School - ICVSS was established in 2007 to provide both an objective and clear overview and an in-depth analysis of the state-of-the-art research in Computer Vision. The courses are delivered by world renowned experts in the field, from both academia and

industry, and cover both theoretical and practical aspects of real Computer Vision problems. The school is organized every year by University of Cambridge (Computer Vision and Robotics Group) and University of Catania (Image Processing Lab). Different topics are covered each year. A summary of the past Computer Vision Summer Schools can be found at:

<http://www.dmi.unict.it/icvss>

This edited volume contains a selection of articles covering some of the talks and tutorials held during the last editions of the school. The chapters provide an in-depth overview of challenging areas with key references to the existing literature.

Soft Tissue and Bone Sarcoma - Edwin Choy 2018-10-08

This book is a printed edition of the Special Issue "Soft Tissue and Bone Sarcoma" that was published in *Cancers* [Food Tourism and Regional Development](#) - C. Michael Hall 2016-05-26

Food tourism is a topic of increasing importance for many destinations. Seen as a means to potentially attract tourists and differentiate destinations and attractions by means of the association with particular products and cuisines, food is also regarded as an opportunity to generate added value from tourism through local agricultural systems and supply chains and the local food system. From a regional development perspective this book goes beyond culinary tourism to also look at some of the ways in which the interrelationships between food and tourism contribute to the economic, environmental and social wellbeing of destinations, communities and producers. It examines the way in which tourism and food can mutually add value for each other from the fork to the plate and beyond. Looking at products, e.g. cheese, craft beer, noodles, wine; attractions, restaurants and events; and diverse regional examples, e.g. Champagne, Hong Kong,

Jamaica, Margaret River, southern Sweden, and Tuscany; the title highlights how clustering, networking and the cultural economy of food and tourism and foodscapes adds value for regions. Despite the attention given to food, wine and culinary tourism no book has previously directly focused on the contribution of food and tourism in regional development. This international collection has contributors and examples from almost every continent and provides a comprehensive account of the various intersections between food tourism and regional development. This timely and significant volume will inform future food and tourism development as well as regional development more widely and will be valuable reading for a range of disciplines including tourism, development studies, food and culinary studies, regional studies, geography and environmental studies. [Advances in Interpretation of Geological Processes](#) - Maria

Iole Spalla 2010

Iterative comparison of analytical results and natural observations with predictions of numerical models improves interpretation of geological processes. Further refinements derive from wide-angle comparison of results from various scales of study. In this volume, advances from field, laboratory and modelling approaches to tectonic evolution - from the lithosphere to the rock scale - are compared. Constructive use is made of apparently discrepant or non-consistent results from analytical or methodological approaches in processing field or laboratory data, P-T estimates, absolute or relative age determinations of tectonic events, tectonic unit size in crustal-scale deformation, grain-scale deformation processes, various modelling approaches, and numerical techniques. Advances in geodynamic modelling critically depend on new insights into grain- and subgrain-scale deformation processes. Conversely,

quantitative models help to identify which rheological laws and pa-rameters exert the strongest control on multi-scale deformation up to lithosphere and upper mantle scale

Values in Global

Administrative Law - Gordon Anthony 2011-02-14

Global Administrative Law has recently emerged as one of the most important contemporary fields in public law scholarship. Concerned with developing fuller understandings of patterns in global governance, it represents one of the most insightful ways of viewing the multifarious forms of public power that now exist beyond the State. The present collection brings together some of the leading scholars working in the field of global administrative law to address past and future challenges related to global governance. Each of the contributions picks up on the more general theme of the values that do or should inform global administrative law, and the book in this way provides a novel and thought-provoking commentary on this

most engaging area of debate. Values in Global Administrative Law will be of interest to public lawyers, social and political scientists and scholars of international relations. It will also be an invaluable resource for undergraduate and postgraduate courses that touch partly or exclusively on the challenges of global governance.

Corruption and Conflicts of Interest - Jean-Bernard Auby
2014-02-28

As in all periods of swift economic development and political upheaval, our era of globalization has brought corruption and conflicts of interest into the spotlight. This comprehensive study highlights the difficulties of devising global legislative an

Soft Computing Luigi Fortuna
2012-12-06

The book presents a clear understanding of a new type of computation system, the Cellular Neural Network (CNN), which has been successfully applied to the solution of many heavy computation problems, mainly

in the fields of image processing and complex partial differential equations. The text describes how CNN will improve the soft-computation toolbox, and examines the many applications of soft computing to complex systems.
Lower Urinary Tract Symptoms and Benign Prostatic Hyperplasia - Giuseppe Morgia
2018-01-05

Lower Urinary Tract Symptoms and Benign Prostatic Hyperplasia: From Research to Bedside offers full acknowledgment of the basic research of lower urinary tract symptoms (LUTS) and benign prostatic hyperplasia (BPH), also connecting the clinical and practice management of the disease. It provides a full comprehension of LUTS and BPH from several aspects, allowing for a schematic interpretation of the disease and subsequent medical management. Going beyond the guidelines in the field, this title enhances the knowledge of BPH onset, allowing for the advancement of research, beneficial clinical implication

and treatment. Perfect for researchers, urologists, pathologists and endocrinologists, this must-have reference provides what is needed to understand LUTS and BPH in one easy to reference place. Provides a clear understanding of the pathological mechanisms that are present in lower urinary tract symptoms (LUTS) and benign prostatic hyperplasia (BPH) Incorporates research with the clinical aspects of LUTS and BPH, including surgical techniques Presents an overview of LUTS and BPH in one easy to reference place

Post-Archean Granitic Rocks
V. Janoušek 2020-07-02

Granites (sensu lato) represent the dominant rock-type forming the upper-middle continental crust but their origin remains a matter of long-standing controversy. The granites may result from fractionation of mantle-derived basaltic magmas, or partial melting of different crustal protoliths at contrasting P-T conditions, either water-fluxed or fluid-absent. Consequently, many

different mechanisms have been proposed to explain the compositional variability of granites ranging from whole igneous suites down to mineral scale. This book presents an overview of the state of the art, and envisages future avenues towards a better understanding of granite petrogenesis. Particular emphasis of this Volume is on the following topics: Compositional variability of granitic rocks generated in contrasting geodynamic settings during Proterozoic to Phanerozoic Periods, Main permissible mechanisms producing subduction-related granites, Crustal anatexis of different protoliths, and the role of water in granite petrogenesis, New theoretical and analytical tools available for modelling whole-rock geochemistry, in order to decipher the sources and evolution of granitic suites.

Registration and Recognition in Images and Videos Roberto Cipolla 2013-11-19

Computer vision is the science and technology of making machines that see. It is

concerned with the theory, design and implementation of algorithms that can automatically process visual data to recognize objects, track and recover their shape and spatial layout. The International Computer Vision Summer School - ICVSS was established in 2007 to provide both an objective and clear overview and an in-depth analysis of the state-of-the-art research in Computer Vision. The courses are delivered by world renowned experts in the field, from both academia and industry and cover both theoretical and practical aspects of real Computer Vision problems. The school is organized every year by University of Cambridge (Computer Vision and Robotics Group) and University of Catania (Image Processing Lab). Different topics are covered each year. This edited volume contains a selection of articles covering some of the talks and tutorials held during the last editions of the school. The chapters provide an in-depth overview of challenging

areas with key references to the existing literature.
Mécanique Analytique 2
Volume Set - Joseph Louis Lagrange 2009-09-24
Joseph-Louis Lagrange (1736-1813), one of the notable French mathematicians of the Revolutionary period, is remembered for his work in the fields of analysis, number theory and mechanics. Like Laplace and Legendre, Lagrange was assisted by d'Alembert, and it was on the recommendation of the latter and the urging of Frederick the Great himself that Lagrange succeeded Euler as the director of mathematics at the Prussian Academy of Sciences in Berlin. The two-volume *Mécanique analytique* was first published in 1788; the edition presented here is that of 1811-15, revised by the author before his death. In this work, claimed to be the most important on classical mechanics since Newton, Lagrange developed the law of virtual work, from which single principle the whole of solid and fluid mechanics can be derived.

Advanced Materials for the Conservation of Stone -

Majid Hosseini 2018-01-22

This book identifies novel advanced materials that can be utilized as protective agents for the preservation of stone. The innovative solutions to stone conservation presented here result in increased sustainability, reduced environmental impact, and increased social and economic benefits. It provides an overview of recent trends and progress in advanced materials applied to stone protection. It also explores the scientific principles behind these advanced materials and discusses their applications to different types of stone preservation efforts. Essential information as well as knowledge on the availability and applicability of advanced nanostructured materials is also provided, with focus placed on the practical aspects of stone protection. The book highlights an interdisciplinary effort regarding novel applications of nanostructured materials in the advancement

of stone protection. It provides insight towards forthcoming developments in the field. Advanced nanostructured materials are designed and developed with the aim of being chemically, physically, and mechanically compatible with stone. Advanced materials for stone conservation that are characterized by several functional properties are considered in this book. These include the physico-chemical, protective, and morphological properties, eco-toxicity, and mechanisms of degradation. The authors present a thorough overview of cutting-edge discoveries, detailed information on recent technological developments, breakthroughs in novel nanomaterials, utilization strategies for applications in cultural heritage, and the current status and future outlook of the topic to address a wide range of scientific communities.

Equality, Freedom, and Democracy - Leonardo Morlino 2020

"In the intellectual life of a

scholar, it is not infrequent for a research question to rattle around in the back of the mind for years. Then all of a sudden comes the realisation that the time is ripe to tackle the topic, and that an attempt has to be made at presenting, discussing and empirically analysed it. I will not go into the reasons why I think that this is now the right moment to address the question on the implementation of the two traditional democratic values, and their transformations over recent years, partly as a consequence of the economic crisis, and its prospective sustainability. Maybe in his Discorsi Machiavelli was only right when he recommends going back to values in times of crisis. There are, of course, other objective and subjective reasons, and the former will emerge directly and indirectly in the first chapter"-.
Problems and Solutions in Structural Geology and Tectonics, Volume 5, in the

Problems and Solutions in Structural Geology and Tectonics - 2019-02-26

Problems and Solutions in Structural Geology and Tectonics, Volume 5, in the

series Developments in Structural Geology and Tectonics, presents students, researchers and practitioners with an all-new set of problems and solutions that structural geologists and tectonics researchers commonly face. Topics covered include ductile deformation (such as strain analyses), brittle deformation (such as rock fracturing), brittle-ductile deformation, collisional and shortening tectonics, thrust-related exercises, rift and extensional tectonics, strike slip tectonics, and cross-section balancing exercises. The book provides a how-to guide for students of structural geology and geologists working in the oil, gas and mining industries. Provides practical solutions to industry-related issues, such as well bore stability Allows for self-study and includes background information and explanation of research and industry jargon Includes full color diagrams to explain 3D issues

New Frontiers in Tectonic Research - Uri Schattner

2011-08-09

Ocean closure involves a variety of converging tectonic processes that reshape shrinking basins, their adjacent margins and the entire earth underneath. Following continental breakup, margin formation and sediment accumulation, tectonics normally relaxes and the margins become passive for millions of years. However, when final convergence is at the gate, the passive days of any ocean and its margins are over or soon will be. The fate of the Mediterranean and Persian Gulf is seemingly known beforehand, as they are nestled in the midst of Africa-Arabia plate convergence with Eurasia. Over millions of years through the Cenozoic era they progressively shriveled, leaving only a glimpse of the Tethys Ocean. Eventually, the basins will adhere to the Alpine-Himalaya orogen and dissipate. This book focuses on a unique stage in the ocean closure process, when significant convergence already induced major deformations, yet the

inter-plate basins and margins still record the geological history.

Jurisprudence of the Human Rights Chamber for Bosnia and Herzegovina - Prisca Van Althuis 2004

In the aftermath of the war in Bosnia and Herzegovina the Human Rights Chamber for Bosnia and Herzegovina was established under Annex 6 to the General Framework Agreement for Peace in Bosnia and Herzegovina (Dayton Peace Agreement). The Human Rights Chamber for Bosnia and Herzegovina first constituted in March 1996. Many changes have taken place since the Chamber issued its first decision on the merits in the case CH/96/01 Matanovic v. the Republika Srpska. From that early beginning when the electricity failed in 1997 during the public hearing in that case, and the hearing had to be continued under the glow of candlelight, until today, the Chamber has deliberated, debated and decided on a couple thousand cases involving a diverse range of

alleged violations of human rights. Over the years it has established itself into an effective and impartial judicial institution that has earned the trust and confidence of the citizens of Bosnia and Herzegovina.

Digital Skills and Life-long Learning: Digital Learning as a New Insight of Enhanced Learning by the Innovative Approach Joining Technology and Cognition - Dina Di Giacomo 2019-03-01

Recently, technology and aging have been key research areas in human cognition. The Research Topic “Digital Skills and Life-long Learning: Digital Learning as a New Insight of Enhanced Learning by the Innovative Approach Joining Technology and Cognition” investigated technology's impact on cognitive and intellectual processes, highlighting how intensively technology can change and/or enhance the cognitive functioning throughout one's lifespan. The aim of this Research Topic was to provide an outlook through

multidisciplinary research and development while addressing the dynamic intersection of cognition, mind, and technology. Our scope was 1) to favor the cognitive technology debate, 2) to overcome the dichotomies of technology and psychology, 3) to emphasize the advances in knowledge and well-being. This Research Topic comprises review studies and original articles, focused on digital skills that enhance human potential. Transversal approaches and cross-sectorial analysis were encouraged, leading to investigation areas related to cognitive and mental processing—in educational, rehabilitation, clinical settings—across aging. Articles of high relevance to the Research Topic were submitted on the subjects of a) research in human performance and human factors, b) new research and technologies addressing the needs of a growing populace, and c) cognitive aging and cognitive rehabilitation research.

Digital and Traditional

Epigraphy in Context - Silvia Orlandi 2017-07-01

This volume collects the proceedings of the final conference of the European project EAGLE (Europeana network of Ancient Greek and Latin Epigraphy), held at the Sapienza University of Rome on January 28-30th 2016.

Comparative Criminal Procedure - John Hatchard 1996-01-01

British Cultural Identities - Mike Storry 2003-09-06

A clear introduction to British culture and 'identity', giving readers an insider's view on the way British people perceive themselves, and are positioned by their culture. Tables, photographs and exercises make this an ideal text.

Volcanism in Antarctica: 200 Million Years of Subduction, Rifting and Continental Break-up - J.L. Smellie 2021-06-09

This memoir is the first to review all of Antarctica's volcanism between 200 million years ago and the Present. The region is still volcanically active. The volume is an

amalgamation of in-depth syntheses, which are presented within distinctly different tectonic settings. Each is described in terms of (1) the volcanology and eruptive palaeoenvironments; (2) petrology and origin of magma; and (3) active volcanism, including tephrochronology. Important volcanic episodes include: astonishingly voluminous mafic and felsic volcanic deposits associated with the Jurassic break-up of Gondwana; the construction and progressive demise of a major Jurassic to Present continental arc, including back-arc alkaline basalts and volcanism in a young ensialic marginal basin; Miocene to Pleistocene mafic volcanism associated with post-subduction slab-window formation; numerous Neogene alkaline volcanoes, including the massive Erebus volcano and its persistent phonolitic lava lake, that are widely distributed within and adjacent to one of the world's major zones of lithospheric extension (the West Antarctic Rift

System); and very young ultrapotassic volcanism erupted subglacially and forming a world-wide type example (Gaussberg).

An Introduction To Machine Learning In Quantitative Finance - Hao Ni 2021-04-07

In today's world, we are increasingly exposed to the words 'machine learning' (ML), a term which sounds like a panacea designed to cure all problems ranging from image recognition to machine language translation. Over the past few years, ML has gradually permeated the financial sector, reshaping the landscape of quantitative finance as we know it. An Introduction to Machine Learning in Quantitative Finance aims to demystify ML by uncovering its underlying mathematics and showing how to apply ML methods to real-world financial data. In this book the authorsFeatured with the balance of mathematical theorems and practical code examples of ML, this book will help you acquire an in-depth understanding of ML

algorithms as well as hands-on experience. After reading An Introduction to Machine Learning in Quantitative Finance, ML tools will not be a black box to you anymore, and you will feel confident in successfully applying what you have learnt to empirical financial data!

Research Handbook on Global Administrative Law - Sabino Cassese 2016-02-27

This Handbook explores the main themes and topics of the emerging field of Global Administrative Law with contributions by leading scholars and experts from universities and organizations around the world. The variety of the subjects addressed and the internationality of the Handbook's perspectives make for a truly global and multi-dimensional view of the field. The book first examines the growth of global administrations, their interactions within global networks, the emergence of a global administrative process, and the development of the rule of law and democratic

principles at a global level. It goes on to illustrate the relationship between global law and other legal orders, with particular attention to regional systems and national orders. The final section, devoted to the emergence of a global legal culture, brings the book full circle by identifying the growth of a global epistemic community. The Research Handbook on Global Administrative Law provides a contemporary overview of the nascent field in detailed yet accessible terms, making it a valuable book for university courses. Academics and scholars with an interest in international law, administrative law, public law, and comparative law will find value in this book, as well as legal professionals involved with international and supranational organizations and national civil servants dealing with supranational organizations.

The Palaeozoic - Michel Moullade 1991

Hardbound. This first volume in The Phanerozoic Geology of

the World series devoted to the Palaeozoic is an assemblage of contributions dealing mainly with fragments of the former Gondwana. Data is included which is not readily available elsewhere. Each chapter contains a comprehensive bibliography to serve as a resource base for more detailed study.

Complexity of Seismic Time Series - Tamaz Chelidze

2018-05-21

Complexity of Seismic Time Series: Measurement and Application applies the tools of nonlinear dynamics to seismic analysis, allowing for the revelation of new details in micro-seismicity, new perspectives in seismic noise, and new tools for prediction of seismic events. The book summarizes both advances and applications in the field, thus meeting the needs of both fundamental and practical seismology. Merging the needs of the classical field and the very modern terms of complexity science, this book covers theory and its application to advanced

nonlinear time series tools to investigate Earth's vibrations, making it a valuable tool for seismologists, hazard managers and engineers. Covers the topic of Earth's vibrations involving many different aspects of theoretical and observational seismology Identifies applications of advanced nonlinear time series tools for the characterization of these Earth's signals Merges the needs of geophysics with the applications of complexity theory Describes different methodologies to analyze problems, not only in the context of geosciences, but also those associated with different complex systems across disciplines

Digital Imaging for Cultural Heritage Preservation -

Filippo Stanco 2017-12-19

This edition presents the most prominent topics and applications of digital image processing, analysis, and computer graphics in the field of cultural heritage preservation. The text assumes prior knowledge of digital image processing and

computer graphics fundamentals. Each chapter contains a table of contents, illustrations, and figures that elucidate the presented concepts in detail, as well as a chapter summary and a bibliography for further reading. Well-known experts cover a wide range of topics and related applications, including spectral imaging, automated restoration, computational reconstruction, digital reproduction, and 3D models.

Practical Algorithms in Pediatric Endocrinology - Z.

Hochberg 2007-01-01

A Karger 'Publishing Highlights 1890-2015' title Algorithms provide a logical, concise and cost-effective approach to medical reasoning: utilizing a concise, step-by-step approach based upon clues from the history, physical examination and laboratory studies, algorithms help avoid excessive unnecessary procedures and testing. The 2nd, revised edition of Practical Algorithms in Pediatric Endocrinology deals with practical issues of

child growth, puberty, diseases of the endocrine glands, sexual differentiation, as well as aberrations of water, electrolyte, mineral and carbohydrate metabolism. Fifty clinical issues are covered by an algorithmic approach, breaking down long lists and tables of differential diagnosis into smaller, more manageable ones. Common clinical symptoms, signs and laboratory abnormalities are classified as they present themselves at the patient's bedside. This book is aimed at general practitioners and pediatricians, in particular those who are not exposed to pediatric endocrine problems on a daily basis, and at trainees in endocrinology and pediatric endocrinology as they acquire familiarity with clinical problem solving to make rational choices when facing clinical dilemmas.

Earthquake Resistant Engineering Structures VIII

- C. A. Brebbia 2011

In order to protect the built environment in earthquake-

prone regions of the world It is important to retrofit and rehabilitate existing structures and infrastructure, as well as to ensure the optimal design and construction of new facilities. The high stakes in human life and property in urban densely populated urban areas has been driving research on advances in this field. These advances are presented biennially at a conference organized by the Wessex Institute of Technology. This book contains the papers from the latest conference in the series, which began in 1991. The papers cover Geographical and geotechnical engineering; Seismic hazard and vulnerability; Seismic isolation and energy dissipation; Structural dynamics; Building performance during earthquakes; Retrofitting; Lifelines; Material mechanics and characterisation; Nonlinear numerical analysis; Performance based design; Experimental studies; Safety and security; and Innovative technologies.