

Lithostratigraphy Of Sicily Unipa Springer Series

Who is Who in Thermal Analysis and Calorimetry
Introductory Physics of the Atmosphere and Ocean
Integrated Pest and Disease Management in Greenhouse Crops
Landslide Science and Practice
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Seismic Imaging of Carbonate Reservoirs and Systems
Innovative Biosystems Engineering for Sustainable Agriculture, Forestry and Food Production
Finding the Limits of the Limes
Land Evaluation
Stratigraphy
Statistical Methods for the Evaluation of University Systems
The Role of Halogens in Terrestrial and Extraterrestrial Geochemical Processes
Biocultural Diversity in Europe
How to Store CO₂ Underground: Insights from early-mover CCS Projects
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New Perspectives in Statistical Modeling and Data Analysis
The Soils of Italy
Eutrophication: Causes, Consequences and Control
Essays on the History of Mechanical Engineering
Engineering Geology for Society and Territory - Volume 5

Who is Who in Thermal Analysis and Calorimetry

This volume provides recent research results in data analysis, classification and multivariate statistics and highlights perspectives for new scientific developments within these areas. Particular attention is devoted to methodological issues in clustering, statistical modeling and data mining. The volume also contains significant contributions to a wide range of applications such as finance, marketing, and social sciences. The papers in this volume were first presented at the 7th Conference of the Classification and Data Analysis Group (ClaDAG) of the Italian Statistical Society, held at the University of Catania, Italy.

Introductory Physics of the Atmosphere and Ocean

This book treats several subjects from the History of Mechanism and Machine Science, and also contains an illustrative presentation of the Museum of Engines and Mechanisms of the University of Palermo, Italy, which houses a collection of various pieces of machinery from the last 150 years. The various sections deal with some eminent scientists of the past, with the history of industrial installations, machinery and transport, with the human inventiveness for mechanical and scientific devices, and with robots and human-driven automata. All chapters have been written by experts in their fields. The volume shows a wide-ranging panorama on the historical progress of scientific and technical knowledge in the past centuries. It will stimulate new research and ideas for those involved in the history of Science and Technology.

Integrated Pest and Disease Management in Greenhouse Crops

The International Centre for Advanced Mediterranean Agronomic Studies (CIHEAM), established in 1962, is an intergovernmental

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organization of 13 countries: Albania, Algeria, Egypt, France, Greece, Italy, Lebanon, Malta, Morocco, Portugal, Spain, Tunisia and Turkey. Four institutes (Bari, Italy; Chania, Greece; Montpellier, France; and Zaragoza, Spain) provide postgraduate education at the Master of Science level. CIHEAM promotes research networks on Mediterranean agricultural priorities, supports the organization of specialized education in member countries, holds seminars and workshops bringing together technologists and scientists involved in Mediterranean agriculture and regularly produces diverse publications including the series *Options Méditerranéennes*. Through these activities, CIHEAM promotes North/South dialogue and international co-operation for agricultural development in the Mediterranean region. Over the past decade, the Mediterranean Agronomic Institute of Zaragoza has developed a number of training and research-supporting activities in the field of agroecology and sustainability of agricultural production systems. Some of these activities have been concerned with the rational use of pesticides and more particularly with the implementation of integrated control systems in order to gain in efficacy and decrease both the environmental impact and the negative repercussions for the commercialization of agricultural products.

Landslide Science and Practice

Subduction is a major process that plays a first-order role in the dynamics of the Earth. The sinking of cold lithosphere into the mantle is thought by many authors to be the most important source of energy for plates driving forces. It also deeply modifies the thermal and chemical structure of the mantle, producing arc volcanism and is responsible for the release of most of the seismic energy on Earth. There has been considerable achievements done during the past decades regarding the complex interactions between the various processes acting in subduction zones. This volume contains a

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collection of contributions that were presented in June 2007 in Montpellier (France) during a conference that gave a state of the art panorama and discussed the perspectives about "Subduction Zone Geodynamics". The papers included in this special volume offer a unique multidisciplinary picture of the recent research on subduction zones geodynamics. They are organized into five main topics: Subduction zone geodynamics, Seismic tomography and anisotropy, Great subduction zone earthquakes, Seismogenic zone characterization, Continental and ridge subduction processes. Each of the 13 papers collected in the present volume is primarily concerned with one of these topics. However, it is important to highlight that papers always treat more than one topic so that all are related lighting on different aspects of the complex and fascinating subduction zones geodynamics.

Landslide Science and Practice

This book illustrates the diversity of hypogene speleogenetic processes and void-conduit patterns depending on variations of the geological environments by presenting regional and cave-specific case studies. The cases include both well-known and newly recognized hypogene karst regions and caves of the world. They all focus on geological, hydrogeological, geodynamical and evolutionary contexts of hypogene speleogenesis. The last decade has witnessed the boost in recognition of the possibility, global occurrence, and practical importance of hypogene karstification (speleogenesis), i.e. the development of solutional porosity and permeability by upwelling flow, independent of recharge from the overlying or immediately adjacent surface. Hypogene karst has been identified and documented in many regions where it was previously overlooked or misinterpreted. The book enriches the basis for generalization and categorization of hypogene karst and thus improves our ability to adequately model hypogene karstification and predict related porosity and permeability. It is a book

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which benefits every researcher, student, and practitioner dealing with karst.

Seismic Imaging of Carbonate Reservoirs and Systems

Introduces methods of data analysis in geosciences using MATLAB such as basic statistics for univariate, bivariate and multivariate datasets, jackknife and bootstrap resampling schemes, processing of digital elevation models, gridding and contouring, geostatistics and kriging, processing and georeferencing of satellite images, digitizing from the screen, linear and nonlinear time-series analysis and the application of linear time-invariant and adaptive filters. Includes a brief description of each method and numerous examples demonstrating how MATLAB can be used on data sets from earth sciences.

Innovative Biosystems Engineering for Sustainable Agriculture, Forestry and Food Production

This book offers as comprehensive an overview as possible of the lithostratigraphy of the Italian region of Sicily, taking into account the multiplicity of formational and terminological variability developed over more than a century of studies and publications. It presents stratigraphic terminology, the geological lexicon and the main stratigraphic subdivisions that are not familiar to Sicilian geologists. The new stratigraphic methods and the use of formations as mapping units have prompted the acquisition of new lithostratigraphic data, and a review of the previous units and their comparison with the new collected data, enabling the definition of a number of new lithostratigraphic units. The book summarizes the results in 77 worksheets containing the most important information regarding the lithological, sedimentological and microfacies characteristics, the measured thicknesses, areal extent and the regional aspects, the paleoenvironmental, paleogeographic and paleo-tectonics setting,

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compiled according to standard procedures and nomenclature rules provided by the International Commission on Stratigraphy (ICS).

Finding the Limits of the Limes

Volcanic Hazards, Risks, and Disasters provides you with the latest scientific developments in volcano and volcanic research, including causality, impacts, preparedness, risk analysis, planning, response, recovery, and the economics of loss and remediation. It takes a geoscientific approach to the topic while integrating the social and economic issues related to volcanoes and volcanic hazards and disasters. Throughout the book case studies are presented of historically relevant volcanic and seismic hazards and disasters as well as recent catastrophes, such as Chile ' s Puyehue volcano eruption in June 2011. Puts the expertise of top volcanologists, seismologists, geologists, and geophysicists selected by a world-renowned editorial board at your fingertips Presents you with the latest research—including case studies of prominent volcanoes and volcanic hazards and disasters—on causality, economic impacts, fatality rates, and earthquake preparedness and mitigation Numerous tables, maps, diagrams, illustrations, photographs, and video captures of hazardous processes support you in grasping key concepts

Land Evaluation

A multidisciplinary volume describing the effects of volcanism on the environment, past and present, for researchers and advanced students.

Stratigraphy

The book summarizes the knowledge and experiences concerning the role of halogens during various geochemical processes, such as diagenesis, ore-formation, magma evolution, metasomatism,

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mineralization, and metamorphism in the crust and mantle of the Earth. It comprises the role of halogens in other terrestrial worlds like volatile-rich asteroids, Mars, and the ice moons of Jupiter and Saturn. Review chapters outline and expand upon the basis of our current understanding regarding how halogens contribute to the geochemical/geophysical evolution and stability of terrestrial worlds overall.

Statistical Methods for the Evaluation of University Systems

The two chapters of this book originally appeared in "Air Sea Exchange of Gases and Particles", edited by P.S. Liss and W.G.N. Slinn. We wrote them as a general introduction to the physical processes in the atmosphere and ocean which govern the transport of gases and particles in and between the two media. Our audience was to be graduate students in physical chemistry of air and sea, and research workers wishing to get started in this or a related field. It was Dr. Alan Longhurst, Director-General of the Atlantic Region, Canada Department of Fisheries and Oceans, who pointed out that our introduction had a far wider audience: in fact, anyone with a scientific background who needs a basic understanding of the physics of the atmosphere and ocean. Dr. D.J. Larner of Reidel agreed, and this book is the result. Since we expended considerable effort to satisfy the demands of the physical chemists, and also discussed the explanations much with our colleagues at home, we expect the reader will find the two parts to be complementary and useful as a unified reference text. On the other hand, since it was designed as background material for a text on air-sea gas exchange and transport, the more experienced reader will be aware that the picture presented emphasizes transport and exchange processes while it ignores others. No mention is made, for example, of weather forecasting; neither is large-scale ocean modelling considered.

The Role of Halogens in Terrestrial and Extraterrestrial Geochemical Processes

This book contains peer-reviewed papers from the Second World Landslide Forum, organised by the International Consortium on Landslides (ICL), that took place in September 2011. The entire material from the conference has been split into seven volumes, this one is the seventh: 1. Landslide Inventory and Susceptibility and Hazard Zoning, 2. Early Warning, Instrumentation and Monitoring, 3. Spatial Analysis and Modelling, 4. Global Environmental Change, 5. Complex Environment, 6. Risk Assessment, Management and Mitigation, 7. Social and Economic Impact and Policies.

Biocultural Diversity in Europe

This undergraduate textbook presents a unique comprehensive overview on Mathematics in Earth Sciences and Geography. It deals with fundamental theoretical and applied mathematics, needed by bachelor students in a wide range of subjects. The book is illustrated with many examples and over a hundred practical exercises, with solutions included in the book. In addition, this textbook highlights numerical resources by using two free software packages (R and Xcas) and introducing their use.

How to Store CO₂ Underground: Insights from early-mover CCS Projects

This is an expanded and revised second edition, presenting accurate and comprehensive information about our leading thermal scientists to current and future generations. In our globalized world, most researchers in thermal analysis do not know each other in person and are not familiar with each other's achievements. This volume provides the reader with an up-to-date list of the prominent members

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in this community. The publication contains only living scientists. The selection is based partly on several decades of the editors' personal professional experience and also partly on the opinion of the Regional Editors of the Journal of Thermal Analysis and Calorimetry.

Palaeosurfaces

These volumes contain the contributions to the Second European Conference on Unsaturated Soils, E-UNSAT 2012, held in Napoli, Italy, in June 2012. The event is the second of a series of European conferences, and follows the first successful one, organised in Durham, UK, in 2008. The conference series is supported by Technical Committee 106 of the International Society of Soil Mechanics and Geotechnical Engineering on Unsaturated Soils. The published contributions were selected after a careful peer-review process. A collection of more than one hundred papers is included, addressing the three thematic areas experimental, including advances in testing techniques and soil behaviour, modelling, covering theoretical and constitutive issues together with numerical and physical modelling, and engineering, focusing on approaches, case histories and geo-environmental themes. The areas of application of the papers embrace most of the geotechnical problems related to unsaturated soils. Increasing interest in geo-environmental problems, including chemical coupling, marks new perspectives in unsaturated soil mechanics. This book will provide a valuable up-to-date reference across the subject for both researchers and practitioners.

Digital Heritage. Progress in Cultural Heritage: Documentation, Preservation, and Protection

Eutrophication continues to be a major global challenge and the problem of eutrophication and availability of freshwater for human consumption is an essential ecological issue. The global demand for

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water resources due to increasing population, economic developments, and emerging energy development schemes has created new environmental challenges for global sustainability. Accordingly, the area of research on eutrophication has expanded considerably in recent years. Eutrophication, acidification and contamination by toxic substances are likely to pose increasing threats to freshwater resources and ecosystems. The consequences of anthropogenic-induced eutrophication of freshwaters are severe deterioration of surface waters and growing public concern, as well as new interest among the scientific community. “ Eutrophication: causes, consequences & control ” provides the latest information on many important aspects of the processes of natural and accelerated eutrophication in major aquatic ecosystems around the world. This book offers a cutting-edge resource for researchers and students alike who are studying eutrophication in various ecosystems. It presents the latest trends and developments in the field, including: global scenarios and local threats to the dynamics of aquatic ecosystems, economics of eutrophication, eutrophication in the great lakes of the Chinese pacific drainage basin, photoautotrophic productivity in eutrophic ecosystems, eutrophication ’ s impacts on natural metal remediation in salt marshes, phytoplankton assemblages as an indicator of water quality in seven temperate estuarine lakes in southeast Australia, biogeochemical indicators of nutrient enrichments in wetlands – the microbial response as a sensitive indicator of wetland eutrophication, and ultraviolet radiation and bromide as limiting factors in eutrophication processes in semi-arid climate zones. Written by respected experts and featuring helpful illustrations and photographs, “ Eutrophication: causes, consequences & control ” provides a concise and practical update on the latest developments in eutrophication.

Volcanic Hazards, Risks and Disasters

This book contains peer-reviewed papers from the Second World

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Landslide Forum, organised by the International Consortium on Landslides (ICL), that took place in September 2011. The entire material from the conference has been split into seven volumes, this one is the fifth: 1. Landslide Inventory and Susceptibility and Hazard Zoning, 2. Early Warning, Instrumentation and Monitoring, 3. Spatial Analysis and Modelling, 4. Global Environmental Change, 5. Complex Environment, 6. Risk Assessment, Management and Mitigation, 7. Social and Economic Impact and Policies.

Submarine Mass Movements and their Consequences

This book introduces the scientific basis and engineering practice for CO₂ storage, covering topics such as storage capacity, trapping mechanisms, CO₂ phase behaviour and flow dynamics, engineering and geomechanics of geological storage, injection well design, and geophysical and geochemical monitoring. It also provides numerous examples from the early mover CCS projects, notably Sleipner and Snøhvit offshore Norway, as well as other pioneering CO₂ storage projects.

Archaeology of Uplands on a Mediterranean Island

Stratigraphy defines the basis, concepts and methods of one of the oldest disciplines of Earth Sciences. Stratigraphy is a primary tool in dynamical and historical reconstructions in paleogeography, paleontology, tectonics, sedimentology as well as mineral prospecting. The first three chapters are devoted to the description of the main tools used to subdivide geological time and to construct a more precise chronologic scale. During this century this approach has been closely associated with the progress yielded by geochemistry, geophysics, plate tectonics, petroleum exploration and the Deep Sea Drilling Program. Correlation and dating, leading to reconstructions of paleogeography - a major step toward the knowledge of Earth history - is included. In a

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In the last chapter the principal stages of geohistory are described. Epoch for epoch plate dynamics, sea level and climate variations, environmental characters on continents and in oceans, and the link between cyclic interval activity, cosmic events and Earth history during the last 900 million years are outlined. Stratigraphical methods are then presented at their different scales of observation and synthesis.

Lithostratigraphy of Sicily

Historical Earthquake-Resistant Timber Framing in the Mediterranean Area

Modern seismology has faced new challenges in the study of earthquakes and their physical characteristics. This volume is dedicated to the use of new approaches and presents a state-of-the-art in historical seismology. Selected historical and recent earthquakes are chosen to document and constrain related seismic parameters using updated methodologies in the macroseismic analysis, field observations of damage distribution and tectonic effects, and modelling of seismic waveforms.

Historical Seismology

This book presents a selection of the best papers from the HEaRT 2015 conference, held in Lisbon, Portugal, which provided a valuable forum for engineers and architects, researchers and educators to exchange views and findings concerning the technological history, construction features and seismic behavior of historical timber-framed walls in the Mediterranean countries. The topics covered are wide ranging and include historical aspects and examples of the use of timber-framed construction systems in response to earthquakes, such as the gaiola system in Portugal and the Bourbon system in southern Italy;

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interpretation of the response of timber-framed walls to seismic actions based on calculations and experimental tests; assessment of the effectiveness of repair and strengthening techniques, e.g., using aramid fiber wires or sheets; and modelling analyses. In addition, on the basis of case studies, a methodology is presented that is applicable to diagnosis, strengthening and improvement of seismic performance and is compatible with modern theoretical principles and conservation criteria. It is hoped that, by contributing to the knowledge of this construction technique, the book will help to promote conservation of this important component of Europe ' s architectural heritage.

Subduction Zone Geodynamics

This book gathers the latest advances, innovations, and applications in the field of innovative biosystems engineering for sustainable agriculture, forestry and food production. Focusing on the challenges of implementing sustainability in various contexts in the fields of biosystems engineering, it shows how the research has addressed the sustainable use of renewable and non-renewable resources. It also presents possible solutions to help achieve sustainable production. The Mid-Term Conference of the Italian Association of Agricultural Engineering (AIIA) is part of a series of conferences, seminars and meetings that the AIIA organizes, together with other public and private stakeholders, to promote the creation and dissemination of new knowledge in the sector. The contributions included in the book were selected by means of a rigorous peer-review process, and offer an extensive and multidisciplinary overview of interesting solutions in the field of innovative biosystems engineering for sustainable agriculture.

Mathematics for Earth Science and Geography

The plate tectonics revolution in the earth sciences has provided a valuable new framework for understanding long-term landform

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development. This innovative text provides a comprehensive introduction to the subject of global geomorphology, with the emphasis placed on large-scale processes and phenomena. Integrating global tectonics into the study of landforms and incorporating planetary geomorphology as a major component the author discusses the impact of climatic change and the role of catastrophic events on landform genesis and includes a comprehensive study of surface geomorphic processes.

Unsaturated Soils: Research and Applications

Frequent drought events have recently occurred in different Mediterranean regions. These have highlighted a general inadequacy of the current strategies applied to mitigate negative impacts of such phenomenon. This book provides various methods of drought monitoring at different spatial scales, as well as innovative drought forecasting techniques based on stochastic approaches. Besides common drought indices (i.e. SPI), new agrometeorological indices are proposed.

Landslide Science and Practice

This book presents archaeological research conducted within the Highlands of Sicily. Results of an archaeological survey in the Madonie mountain range, in northern Sicily, supported by a chronological and cultural grid, drawn by the excavation of Vallone Inferno, deal with complex and fascinating problems of uplands and mountainous landscape. Settlement patterns, between the Late Pleistocene and the Medieval era, are investigated through the support of spatial analyses. A diversified use of the mountain is currently attested by this research, according to the different prehistoric and historical times. This work is innovative for the Mediterranean area, where there are no similar examples of such extensive territorial research in a mountainous

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context. The research has been focused on particular aspects of ancient peopling: economic and social issues, human-environment interactions and the long term interest in the mountain range.

The Top 50 Mediterranean Island Plants

This edited volume is based on the best papers accepted for presentation during the 1st Springer Conference of the Arabian Journal of Geosciences (CAJG-1), Tunisia 2018. The book is of interest to all researchers in the fields of Structural Geology, Stratigraphy, Ore Deposits, Regional Tectonics and Tectonic Modelling. This volume offers an overview of multidisciplinary studies on the broader Africa-Eurasia geology. Main topics include: 1. Basement Geology 2. Fluid-rock interaction, hydrothermalism and ore deposits 3. Reservoir geology, structure and stratigraphy 4. Mediterranean Tectonics 5. The Alpine-Himalayan convergence zone 6. Tectonic Modelling

Nannofossil Biostratigraphy

Hypogene Karst Regions and Caves of the World

This book presents a collection of statistical methods and procedures to assess data coming from educational systems. The topics examined include: statistical methods for constructing composite indicators, applied measurements, assessment of educational systems, measurement of the performance of the students at Italian universities, and statistical modeling for questionnaire data. Other issues are the implications of introducing different assessment criteria and procedures to the Italian university system.

Methods and Tools for Drought Analysis and Management

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This two-volume set LNCS 10058 and LNCS 10059 constitutes the refereed proceedings of the 6th International Conference on Digital Heritage, EuroMed 2016, held in Nicosia, Cyprus, in October/November 2016. The 29 full papers, 44 project papers, and 32 short papers presented were carefully reviewed and selected from 502 submissions. The papers are organized in topical sections on 3D Reconstruction and 3D Modelling; Heritage Building Information Models; Innovative Methods on Risk Assessment, Monitoring and Protection of Cultural Heritage; Intangible Cultural Heritage Documentation; Digital Applications for Materials' Preservation and Conservation in Cultural Heritage; Non-Destructive Techniques in Cultural Heritage Conservation; Visualisation, VR and AR Methods and Applications; The New Era of Museums and Exhibitions: Digital Engagement and Dissemination; Digital Cultural Heritage in Education, Learning and Training; Data Acquisition, Process and Management in Cultural Heritage; Data, Metadata, Semantics and Ontologies in Cultural Heritage; Novel Approaches to Landscapes in Cultural Heritage; Digital Applications for Materials' Preservation and Conservation in Cultural Heritage; and Serious Games for Cultural Heritage.

Global Geomorphology

This book is a comprehensive collection of state-of-the-art studies of seafloor slope instability and their societal implications. The volume captures the most recent and exciting scientific progress made in this research field. As the world's climate and energy needs change, the conditions under which slope instability occurs and needs to be considered, are also changing. The science and engineering of submarine – or more widely subaqueous – mass movements is greatly benefiting from advances in seafloor and sub-seafloor surveying technologies. Ultra-high-resolution seafloor mapping and 3D seismic reflection cubes are becoming commonly available datasets that are

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dramatically increasing our knowledge of the mechanisms and controls of subaqueous slope failure. Monitoring of slope deformation, repeat surveying and deep drilling, on the other hand, are emerging as important new techniques for understanding the temporal scales of slope instability. In essence, rapid advances in technology are being readily incorporated into scientific research and as a result, our understanding of submarine mass movements is increasing at a very fast rate. The volume also marks the beginning of the third IGCP project for the submarine mass movement research community, IGCP-640 S4SLIDE (Significance of Modern and Ancient Submarine Slope LandSLIDEs). The Submarine Mass Movements and Their Consequences symposium is the biannual meeting under the IGCP umbrella.

Volcanism and Global Environmental Change

The Soils of Italy is the first comprehensive book on Italian pedology in seventy years. Taking advantage of the authors' large experience and of the most up-to-date information and technology, this book treats the main soil types of Italy, their diffusion, their functions, ecological use, and the threats to which they are subjected during centuries of intensive management. It also deals with future scenarios of the relationships between soil science and other disciplines, such as urban development, medicine, economics, sociology, and archaeology. The description of the soils is accompanied by a complete set of data, pictures and maps, including benchmark profiles. Factors of soil formation are also treated, making use of new, unpublished data and elaborations. The book also includes a history of pedological research in Italy, spanning over a century.

Hypogene Cave Morphologies

Palaeosurfaces is an area where geologists and geomorphologists can

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combine their expertise to provide a more holistic treatment of the processes that helped shape the face of the Earth. This volume presents a cross-disciplinary study of the evolution, reconstruction and palaeoenvironmental interpretation of ancient paleosurfaces. Topics include palaeoenvironmental studies involving lateritization and bauxitization, palaeokarstification, geochemistry of rock alteration and the identification of ancient palaeosurface elements in both glaciated and tropical terrains.

MATLAB® Recipes for Earth Sciences

This book is one out of 8 IAEG XII Congress volumes, and deals with the theme of urban geology. Along with a rapidly growing world population, the wave of urban growth continues, causing cities to swell and new metropolitan centers to emerge. These global trends also open new ventures for underground city development. Engineering geology plays a major role in facing the increasing issues of the urban environment, such as: finding aggregates for construction works; providing adequate water supply and waste management; solving building problems associated to geological and geomorphological conditions; evaluating host rock conditions for underground constructions; preventing or mitigating geological and seismic hazards. Furthermore, this book illustrates recent advancements in sustainable land use planning, which includes conservation, protection, reclamation and landscape impact of open pit mining and alternative power generation. The Engineering Geology for Society and Territory volumes of the IAEG XII Congress held in Torino from September 15-19, 2014, analyze the dynamic role of engineering geology in our changing world and build on the four main themes of the congress: environment, processes, issues and approaches. The congress topics and subject areas of the 8 IAEG XII Congress volumes are: 1. Climate Change and Engineering Geology 2. Landslide Processes River Basins 3. Reservoir Sedimentation and Water Resources 4. Marine and

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Coastal Processes Urban Geology 5. Sustainable Planning and Landscape Exploitation 6. Applied Geology for Major Engineering Projects 7. Education, Professional Ethics and Public Recognition of Engineering Geology 8. Preservation of Cultural Heritage

The Structural Geology Contribution to the Africa-Eurasia Geology: Basement and Reservoir Structure, Ore Mineralisation and Tectonic Modelling

This book contains peer-reviewed papers from the Second World Landslide Forum, organised by the International Consortium on Landslides (ICL), that took place in September 2011. The entire material from the conference has been split into seven volumes, this one is the sixth: 1. Landslide Inventory and Susceptibility and Hazard Zoning, 2. Early Warning, Instrumentation and Monitoring, 3. Spatial Analysis and Modelling, 4. Global Environmental Change, 5. Complex Environment, 6. Risk Assessment, Management and Mitigation, 7. Social and Economic Impact and Policies.

New Perspectives in Statistical Modeling and Data Analysis

The Soils of Italy

Special Publication 18

Eutrophication: Causes, Consequences and Control

This open access book demonstrates the application of simulation modelling and network analysis techniques in the field of Roman studies. It summarizes and discusses the results of a 5-year research project carried out by the editors that aimed to apply spatial dynamical modelling to reconstruct and understand the socio-economic

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development of the Dutch part of the Roman frontier (limes) zone, in particular the agrarian economy and the related development of settlement patterns and transport networks in the area. The project papers are accompanied by invited chapters presenting case studies and reflections from other parts of the Roman Empire focusing on the themes of subsistence economy, demography, transport and mobility, and socio-economic networks in the Roman period. The book shows the added value of state-of-the-art computer modelling techniques and bridges computational and conventional approaches. Topics that will be of particular interest to archaeologists are the question of (forced) surplus production, the demographic and economic effects of the Roman occupation on the local population, and the structuring of transport networks and settlement patterns. For modellers, issues of sensitivity analysis and validation of modelling results are specifically addressed. This book will appeal to students and researchers working in the computational humanities and social sciences, in particular, archaeology and ancient history.

Essays on the History of Mechanical Engineering

The flora of the Mediterranean islands includes many rare and localized species unique to the islands. Some of these are particularly threatened with extinction due to various pressures caused by people and their activities in Mediterranean ecosystems. It includes 50 descriptive sheets of species which are especially threatened, based on the IUCN Red List criteria. Each sheet gives a description of the species with illustrations and maps, emphasizing the threats to the species, existing conservation measures and additional measures needed for their conservation. Aimed at the layman, the text is easily accessible to the non-botanist.

Engineering Geology for Society and Territory - Volume 5

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The book collects a selection of the papers presented at the meeting held in the context of the Joint Programme on the Links between Biological and Cultural Diversity (JP-BiCuD). Recognizing the inextricable link between biological and cultural diversity, the United Nations Educational Scientific and Cultural Organization (UNESCO) and the Secretariat of the Convention on Biological Diversity (SCBD) joined forces, and in 2010 launched the Joint Programme on the Links between Biological and Cultural Diversity (JP-BiCuD). The first meeting for the implementation of the JP-BiCuD was held in Florence (Italy) in April 2014 and produced the UNESCO-sCBD Florence Declaration, which highlights the concept of biocultural diversity. The European rural territory is predominantly a biocultural, multi-functional landscape, providing a crucial and effective space for integration of biological and cultural diversity, suggesting the need to revise some of the current strategies for the assessment and management of biodiversity.

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