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**Towards a Sustainable Future - Life Cycle Management** Zbigniew Stanislaw Klos 2021-11-18 This open access book includes a selection of contributions from the Life Cycle Management 2019 Conference (LCM) held in Poznań, Poland, and presents different examples of scientific and practical contributions, showing an incorporation of life cycle approach into the decision processes on strategic and operational level. Special attention is drawn to applications of LCM to target, organize, analyze and manage product-related information and activities towards continuous improvement, along the different products life cycle. The selection of case studies presents LCM as a business management approach that can be used by all types of businesses and organizations in order to improve their sustainability performance. This book provides a cross-sectoral, current picture of LCM issues. The structure of the book is based on five-theme lines. The themes represent different objects that are focused on sustainability and LCM practices mainly related to: products,

technologies, organizations, markets and policy issues as well as methodological solutions. The book brings together presentations from the world of science and the world of enterprises as well as institutions supporting economic development.

**ICRRM 2019 – System Reliability, Quality Control, Safety, Maintenance and Management** Vinit Kumar Gunjan 2019-06-13 Content of this proceedings discusses emerging trends in structural reliability, safety and disaster management, covering topics like total quality management, risk maintenance and design for reliability. Some papers also address chemical process reliability, reliability analysis and engineering applications in chemical process equipment systems and includes a chapter on reliability evaluation models of chemical systems. Accepted papers from 2019 International Conference on Reliability, Risk Maintenance and Engineering Management (ICRRM 2019) are part of this conference proceeding. It offers useful insights to road safety engineers, disaster management professionals involved in

product design and probabilistic methods in manufacturing systems.

Geospatial Visualisation Antoni Moore 2012-10-01 This book is a selection of chapters evolved from papers on completed research submitted to GeoCart'2010 / the 1st ICA Regional Symposium on Cartography for Australasia and Oceania, held in Auckland, New Zealand, 1st -3rd September 2010. All of the chapters have been updated and revised thoroughly. They have been blind peer reviewed by two referees of international research standing in geospatial science, mostly in the subdisciplines of cartography and geovisualisation. The book features cutting edge topics such as geovisual analytics, mobile / Web 2.0 mapping, spatiotemporal representation, cognitive cartography, historical mapping and 3D technology.

*Marine Diesel Engines* Nigel Calder 2003 Nigel Calder, a diesel mechanic for more than 25 years, is also a boatbuilder, cabinetmaker, and machinist. He and his wife built their own cruising sailboat, Nada, a project they completed in 1984. Calder is author of numerous articles for *Yachting Monthly* and many other magazines worldwide, as well as the bestselling *Boatowner's Practical and Technical Cruising Manual* and *Boatowner's Mechanical and Electrical Manual*, both published by Adlard Coles Nautical. Here, in this goldmine of a book, is everything the reader needs to keep their diesel engine running cleanly and efficiently. It explains how diesel engines work, defines new terms, and lifts the veil of mystery that surrounds such engines. Clear and logical, this extensively illustrated guide will enable the reader to be their own diesel mechanic. As Nigel Calder says: 'there is no reason for a boatowner not to have a troublefree relationship with a diesel engine. All one needs is to set the engine up correctly in the first place, to pay attention to routine maintenance, to have the knowledge to spot early warning signs of impending trouble, and to have the ability to correct small ones before they become large ones.'

*The Past Web* Daniel Gomes 2021-06-30 This book provides practical

information about web archives, offers inspiring examples for web archivists, raises new challenges, and shares recent research results about access methods to explore information from the past preserved by web archives. The book is structured in six parts. Part 1 advocates for the importance of web archives to preserve our collective memory in the digital era, demonstrates the problem of web ephemera and shows how web archiving activities have been trying to address this challenge. Part 2 then focuses on different strategies for selecting web content to be preserved and on the media types that different web archives host. It provides an overview of efforts to address the preservation of web content as well as smaller-scale but high-quality collections of social media or audiovisual content. Next, Part 3 presents examples of initiatives to improve access to archived web information and provides an overview of access mechanisms for web archives designed to be used by humans or automatically accessed by machines. Part 4 presents research use cases for web archives. It also discusses how to engage more researchers in exploiting web archives and provides inspiring research studies performed using the exploration of web archives. Subsequently, Part 5 demonstrates that web archives should become crucial infrastructures for modern connected societies. It makes the case for developing web archives as research infrastructures and presents several inspiring examples of added-value services built on web archives. Lastly, Part 6 reflects on the evolution of the web and the sustainability of web archiving activities. It debates the requirements and challenges for web archives if they are to assume the responsibility of being societal infrastructures that enable the preservation of memory. This book targets academics and advanced professionals in a broad range of research areas such as digital humanities, social sciences, history, media studies and information or computer science. It also aims to fill the need for a scholarly overview to support lecturers who would like to introduce web archiving into their courses by offering an initial reference for students.

**Washington, Shakespeare and St. George** Sarah M. Colbert 1893

**Geographic Information Science at the Heart of Europe** Danny

Vandenbroucke 2013-05-13 For the seventh consecutive year, the AGILE promotes the publication of a book collecting high-level scientific papers from unpublished fundamental scientific research in the field of Geographic Information Science. As the agenda for Europe 2020 is currently being set, this book demonstrates how geographic information science is at the heart of Europe. The contributions open perspectives for innovative services that will strengthen our European economy, and which will inform citizens about their environment while preserving their privacy. The latest challenges of spatial data infrastructures are addressed, such as the connection with the Web vocabularies or the representation of genealogy. User generated data (through social networks or through interactive cameras and software) is also an important breakthrough in our domain. A trend to deal more and more with time, events, ancient data, and activities is noticeable this year as well. This volume collects the 23 best full papers presented during the 16th AGILE Conference on Geographic Information Science, held between 14 and 17 May 2013 in Leuven, Belgium.

**Business Performance Measurement and Management** Paolo Taticchi

2010-01-22 Measuring and managing the performance of a business is one of the most genuine desires of management. Balanced scorecard, the performance prism and activity-based management are the most popular frameworks in this setting. Based on the findings of R.G. Eccles' acclaimed "Performance Measurement Manifesto (1991)" this book introduces new contexts and themes of application and presents emerging research areas related to business performance measurement and management, e.g. SMEs and sustainability. As a result of the 1st International Summer School Piero Lunghi on "Perspectives of Business Performance Management" this book is written both for students and academics, as well as for practitioners looking for

new, yet proven ways to measure and manage business performance.

**The Role of Sound Groundwater Resources Management and Governance to Achieve Water Security** International Centre for Water Security and Sustainable Management 2021-10-31

**Integrated Groundwater Management** Anthony J Jakeman 2016-08-05 The aim of this book is to document for the first time the dimensions and requirements of effective integrated groundwater management (IGM). Groundwater management is a formidable challenge, one that remains one of humanity's foremost priorities. It has become a largely non-renewable resource that is overexploited in many parts of the world. In the 21st century, the issue moves from how to simply obtain the water we need to how we manage it sustainably for future generations, future economies, and future ecosystems. The focus then becomes one of understanding the drivers and current state of the groundwater resource, and restoring equilibrium to at-risk aquifers. Many interrelated dimensions, however, come to bear when trying to manage groundwater effectively. An integrated approach to groundwater necessarily involves many factors beyond the aquifer itself, such as surface water, water use, water quality, and ecohydrology. Moreover, the science by itself can only define the fundamental bounds of what is possible; effective IGM must also engage the wider community of stakeholders to develop and support policy and other socioeconomic tools needed to realize effective IGM. In order to demonstrate IGM, this book covers theory and principles, embracing: 1) an overview of the dimensions and requirements of groundwater management from an international perspective; 2) the scale of groundwater issues internationally and its links with other sectors, principally energy and climate change; 3) groundwater governance with regard to principles, instruments and institutions available for IGM; 4) biophysical constraints and the capacity and role of hydroecological and hydrogeological science including water quality concerns; and 5) necessary tools including

models, data infrastructures, decision support systems and the management of uncertainty. Examples of effective, and failed, IGM are given. Throughout, the importance of the socioeconomic context that connects all effective IGM is emphasized. Taken as a whole, this work relates the many facets of effective IGM, from the catchment to global perspective.

**Agromining: Farming for Metals** Antony van der Ent 2017-10-28 This is the first book on global agromining/phytomining technology. It presents the complete metal farming or agromining chain; an emerging technology expected to be transformative in the extraction of resources of those elements not accessible by traditional mining techniques. Meeting the demand for critical minerals (rare earth elements, platinum group elements, nickel cobalt) is increasingly difficult in the 21st century due to resource depletion and geopolitical factors. Agromining uses hyperaccumulator plants as “metal crops” farmed on sub-economic soils or mineral waste to obtain valuable elements. This book, which follows the metal farming chain, starts with the latest information on the global distribution and ecology of hyperaccumulator plants, biogeochemical pathways, the influence of rhizosphere microbes, as well as aspects of propagation and conservation of these unusual plants. It then presents the state of the art in new tools for identifying hyperaccumulator plants and for understanding their physiology and molecular biology. It goes on to describe the agronomy of “metal crops,” and opportunities for incorporating agromining into rehabilitation and mine closure, including test-cases of nickel, cobalt, selenium, thallium, rare earth elements and PGEs. Finally, it concludes with an overview of the latest developments in the processing of bio-ores and associated products. This book is edited and authored by the pioneers in the field who have been at the foreground of the development of agromining over the past three decades. It is timely as agromining is now at a pivotal point in its development with rapid expansion of activities in the field around the globe. As such it is of interest to

environmental professionals in the minerals industry, government regulators and academics.

**Research & Innovation Forum 2019** Anna Visvizi 2019-10-28 This book features research presented and discussed during the Research & Innovation Forum (Rii Forum) 2019. As such, this volume offers a unique insight into emerging topics, issues and developments pertinent to the fields of technology, innovation and education and their social impact. Papers included in this volume apply inter- and multi-disciplinary approaches to query such issues as technology-enhanced teaching and learning, smart cities,, information systems, cognitive computing and social networking. What brings these threads of the discussion together is the question of how advances in computer science – which are otherwise largely incomprehensible to researchers from other fields – can be effectively translated and capitalized on so as to make them beneficial for society as a whole. In this context, Rii Forum and Rii Forum proceedings offer an essential venue where diverse stakeholders, including academics, the think tank sector and decision-makers, can engage in a meaningful dialogue with a view to improving the applicability of advances in computer science. In brief, Rii Forum takes the imperative inherent in the 4th industrial revolution seriously, in that it identifies ways of making technology usable and therefore inclusive.

**Google Earth Engine Applications** Lalit Kumar 2019-04-23 In a rapidly changing world, there is an ever-increasing need to monitor the Earth’s resources and manage it sustainably for future generations. Earth observation from satellites is critical to provide information required for informed and timely decision making in this regard. Satellite-based earth observation has advanced rapidly over the last 50 years, and there is a plethora of satellite sensors imaging the Earth at finer spatial and spectral resolutions as well as high temporal resolutions. The amount of data available for any single location on the Earth is now at the petabyte-scale. An ever-increasing capacity and

computing power is needed to handle such large datasets. The Google Earth Engine (GEE) is a cloud-based computing platform that was established by Google to support such data processing. This facility allows for the storage, processing and analysis of spatial data using centralized high-power computing resources, allowing scientists, researchers, hobbyists and anyone else interested in such fields to mine this data and understand the changes occurring on the Earth's surface. This book presents research that applies the Google Earth Engine in mining, storing, retrieving and processing spatial data for a variety of applications that include vegetation monitoring, cropland mapping, ecosystem assessment, and gross primary productivity, among others. Datasets used range from coarse spatial resolution data, such as MODIS, to medium resolution datasets (Worldview -2), and the studies cover the entire globe at varying spatial and temporal scales.

Molecular Science for Drug Development and Biomedicine Wei-Zhu Zhong 2018-10-08 This book is a printed edition of the Special Issue "Molecular Science for Drug Development and Biomedicine" that was published in IJMS

**The West Indian Manatee (Trichechus Manatus)** Sandra L. Husar 1977

**The Marine Electrical and Electronics Bible** John C. Payne 1998 More and more sailors and powerboaters are buying and relying on electronic and electric devices aboard their boats, but few are aware of proper installation procedures or how to safely troubleshoot these devices if they go on the blink.

Fuels, Lubricants, Coolants, and Filters 2016 Fuels, Lubricants, Coolants, and Filters easily helps a reader to understand these wonderful liquids and filters better. By starting with the basics, it builds your knowledge step-by-step in a very structured manner.

**Groundwater Chemicals Desk Reference** John H. Montgomery 2010-12-12 The latest edition of the bestselling Groundwater Chemicals Desk Reference has been thoroughly updated and expanded. In addition to information concerning the environmental fate and transport in various media, organic

priority pollutants and chemicals commonly found in the workplace and the environment, it includes toxicity information for mammals and aquatic species in a clear, consistent format.

Engine Lubrication 1985-01-01

Farymann Marine Diesel Engine Farymann 2013-01 Reprint of the official service manual for Farymann marine diesel engines A30, A40, P30, K30, L30, R30 and S30.

Marine Diesel Basics 1 Dennison Berwick 2017-05-11 Seeing is Understanding. The first VISUAL guide to marine diesel systems on recreational boats. Step-by-step instructions in clear, simple drawings explain how to maintain, winterize and recommission all parts of the system - fuel deck fill - engine - batteries - transmission - stern gland - propeller. Book one of a new series. Canadian author is a sailor and marine mechanic cruising aboard his 36-foot steel-hulled Chevrier sloop. Illustrations: 300+ drawings Pages: 222 pages Published: 2017 Format: softcover Category: Inboards, Gas & Diesel

**Theoretical and Experimental Sonochemistry Involving Inorganic Systems**

Pankaj 2010-10-17 Despite the fact that chemical applications of ultrasound are now widely acknowledged, a detailed presentation of inorganic systems covering nano-particles, catalysis, aqueous chemistry of metallic solutions and their redox characteristics, both from a theoretical and experimental perspective has eluded researchers of this field. Theoretical and Experimental Sonochemistry Involving Inorganic Systems fills this gap and presents a concise and thorough review of this fascinating area of Sonochemistry in a single volume.

Sustainable Urbanism in China Ali Cheshmehzangi 2021-08-17 Sustainable Urbanism in China explores the notion of "Sustainable Urbanism" by considering the role sustainable neighborhood planning plays in the larger picture of sustainable urbanism and suggests innovations and best practices that

are either developed or adopted by China. These are narrated as lessons learnt for other countries where we see similar trends of development patterns or emerging practices. Through various explorations of challenges, paradigms, and innovations of urban sustainability, this book highlights how planning, policy, and design are forming and reforming in the context of China. These are offered through a set of guidelines and pathways for urban sustainability at the scale of neighborhoods/communities or districts in a wider context of urban environments, as well as strategies for planners, developers, policy makers, and educators in the field of the built environment. Through a comprehensive overview of urban sustainability practices in China, this book investigates 12 case study projects. These comprehensive explorations should in turn help construct the future directions of China's sustainable urban development and provide innovative pathways of sustainable urbanism in China and around the globe.

**Cruising World** 1991-04

**Color and Colorimetry. Multidisciplinary Contributions** Maurizio Rossi 2012

**Fundamentals of Tissue Engineering and Regenerative Medicine** Ulrich Meyer 2009-02-11 "Fundamentals of Tissue Engineering and Regenerative Medicine" provides a complete overview of the state of the art in tissue engineering and regenerative medicine. Tissue engineering has grown tremendously during the past decade. Advances in genetic medicine and stem cell technology have significantly improved the potential to influence cell and tissue performance, and have recently expanded the field towards regenerative medicine. In recent years a number of approaches have been used routinely in daily clinical practice, others have been introduced in clinical studies, and multitudes are in the preclinical testing phase. Because of these developments, there is a need to provide comprehensive and detailed information for researchers and clinicians on this rapidly expanding field. This book offers, in a single volume, the prerequisites of a comprehensive

understanding of tissue engineering and regenerative medicine. The book is conceptualized according to a didactic approach (general aspects: social, economic, and ethical considerations; basic biological aspects of regenerative medicine: stem cell medicine, biomolecules, genetic engineering; classic methods of tissue engineering: cell, tissue, organ culture; biotechnological issues: scaffolds; bioreactors, laboratory work; and an extended medical discipline oriented approach: review of clinical use in the various medical specialties). The content of the book, written in 68 chapters by the world's leading research and clinical specialists in their discipline, represents therefore the recent intellect, experience, and state of this bio-medical field.

**Soil Processes and Current Trends in Quality Assessment** Maria C. Hernandez Soriano 2013-02-27 Natural processes and human activities alter the properties and quality of soils over time. Nowadays, the growing interest in soil protection prompts abundant research to estimate soil quality in wide-ranging environmental scenarios. The assessment of soil quality entails the evaluation of the capability of a soil to perform its functions in present scenarios but also how those functions can be preserved for future land use. Currently, soil processes, physical, chemical, and biological properties are recognized as indicators to estimate soil quality. Soil processes and current trends in quality assessment provides a wide depiction of current research conducted in soil quality assessment, encompassing general studies on soil processes, evaluation of significant indicators of soil quality such as soil organic matter dynamic and soil-plant interaction, while presenting diverse strategies for soil fitness amelioration.

**Advances in Groundwater Governance** Karen G. Villholth 2017-12-14 This book addresses groundwater governance, a subject internationally recognized as crucial and topical for enhancing and safeguarding the benefits of groundwater and groundwater-dependent ecosystems to humanity, while ensuring water and food security under global change. The multiple and

complex dimensions of groundwater governance are captured in 28 chapters, written by a team of leading experts from different parts of the world and with a variety of relevant professional backgrounds. The book aims to describe the state-of-the-art and latest developments regarding each of the themes addressed, paying attention to the wide variation of conditions observed around the globe. The book consists of four parts. The first part sets the stage by defining groundwater governance, exploring its emergence and evolution, framing it through a socio-ecological lens and describing groundwater policy and planning approaches. The second part discusses selected key aspects of groundwater governance. The third part zooms in on the increasingly important linkages between groundwater and other resources or sectors, and between local groundwater systems and phenomena or actions at the international or even global level. The fourth part, finally, presents a number of interesting case studies that illustrate contemporary practice in groundwater governance. In one volume, this highly accessible text not only familiarizes water professionals, decision-makers and local stakeholders with groundwater governance, but also provides them with ideas and inspiration for improving groundwater governance in their own environment.

Cruising World 1996-01

**Elements of Yacht Design** Norman Locke Skene 1904

**Sturgeons and Paddlefish of North America** G.T.O LeBreton 2006-01-20

Modern North American sturgeons and paddlefish are the result of 100 million years of evolution. Once an integral part of aboriginal culture, their numbers were decimated by overfishing and habitat destruction during the past two centuries. This book details the extensive science aimed at helping these remarkable species recover from the brink of extinction, and describes the historical, biological, and ecological importance of North American sturgeon and paddlefish. The text is enhanced by photographs and detailed line drawings. This comprehensive volume will be an invaluable resource for

researchers, educators, and consultants, in academic and government settings, who work to further scientific understanding of these fishes. No other single compilation has documented current information in such detail.

*VOLVO PENTA MD2010, MD2020, MD2030, MD2040* Volvo Penta  
2014-03-02

**Intelligent Data Engineering and Automated Learning – IDEAL 2020** Cesar Analide 2020-10-29 This two-volume set of LNCS 12489 and 12490 constitutes the thoroughly refereed conference proceedings of the 21th International Conference on Intelligent Data Engineering and Automated Learning, IDEAL 2020, held in Guimaraes, Portugal, in November 2020.\* The 93 papers presented were carefully reviewed and selected from 134 submissions. These papers provided a timely sample of the latest advances in data engineering and machine learning, from methodologies, frameworks, and algorithms to applications. The core themes of IDEAL 2020 include big data challenges, machine learning, data mining, information retrieval and management, bio-/neuro-informatics, bio-inspired models, agents and hybrid intelligent systems, real-world applications of intelligent techniques and AI. \* The conference was held virtually due to the COVID-19 pandemic.

**Reaction Mechanisms in Environmental Organic Chemistry** Richard A.

Larson 1994-01-19 Reaction Mechanisms in Environmental Organic Chemistry classifies and organizes the reactions of environmentally important organic compounds using concepts and data drawn from traditional mechanistic and physical organic chemistry. It will help readers understand these reactions and their importance for the environmental fates of organic compounds of many types. The book has a molecular and mechanistic emphasis, and it is organized by reaction type. Organic molecules and their fates are examined in an ecosystem context. Their reactions are discussed in terms that organic chemists would use. The book will benefit organic chemists, environmental engineers, water treatment professionals, hazardous

waste specialists, and biologists. Although conceived as a comprehensive monograph, the book could also be used as a text or reference for environmental chemistry classes at the undergraduate or graduate level.

Introduction to Tissue Engineering Ravi Birla 2014-06-05 A comprehensive reference and teaching aid on tissue engineering—covering everything from the basics of regenerative medicine to more advanced and forward thinking topics such as the artificial liver, bladder, and trachea. Regenerative medicine/tissue engineering is the process of replacing or regenerating human cells, tissues, or organs to restore or establish normal function. It is an incredibly progressive field of medicine that may, in the near future, help with the shortage of life-saving organs available through donation for transplantation. Introduction to Tissue Engineering: Applications and Challenges makes tissue engineering more accessible to undergraduate and graduate students alike. It provides a systematic and logical eight-step process for tissue fabrication. Specific chapters have been dedicated to provide in-depth principles for many of the supporting and enabling technologies during the tissue fabrication process and include biomaterial development and synthesis, bioreactor design, and tissue vascularization. The tissue fabrication process is further illustrated with specific examples for liver, bladder, and trachea. Section-coverage includes an overall introduction of tissue engineering; enabling and supporting technologies; clinical applications; and case studies and future challenges. Introduction to Tissue Engineering: Presents medical applications of stem cells in tissue engineering Deals with the effects of chemical stimulation (growth factors and hormones) Covers current disease pathologies and treatment options (pacemakers, prosthesis) Explains bioengineering, design and fabrication, and critical challenges during tissue fabrication Offers PowerPoint slides for instructors Features case studies and a section on future directions and challenges As pioneering individuals look ahead to the possibility of generating entire organ systems, students may turn

to this text for a comprehensive understanding and preparation for the future of regenerative medicine.

**Computational and Cognitive Models of Creative Design VI** John Steven Gero 2005-01-01

**Key Topics in Conservation Biology 2** David W. Macdonald 2013-02-06 Following the much acclaimed success of the first volume of Key Topics in Conservation Biology, this entirely new second volume addresses an innovative array of key topics in contemporary conservation biology. Written by an internationally renowned team of authors, Key Topics in Conservation Biology 2 adds to the still topical foundations laid in the first volume (published in 2007) by exploring a further 25 cutting-edge issues in modern biodiversity conservation, including controversial subjects such as setting conservation priorities, balancing the focus on species and ecosystems, and financial mechanisms to value biodiversity and pay for its conservation. Other chapters, setting the framework for conservation, address the sociology and philosophy of people's relation with Nature and its impact on health, and such challenging practical issues as wildlife trade and conflict between people and carnivores. As a new development, this second volume of Key Topics includes chapters on major ecosystems, such as forests, islands and both fresh and marine waters, along with case studies of the conservation of major taxa: plants, butterflies, birds and mammals. A further selection of topics consider how to safeguard the future through monitoring, reserve planning, corridors and connectivity, together with approaches to introduction and re-wilding, along with managing wildlife disease. A final chapter, by the editors, synthesises thinking on the relationship between biodiversity conservation and human development. Each topic is explored by a team of top international experts, assembled to bring their own cross-cutting knowledge to a penetrating synthesis of the issues from both theoretical and practical perspectives. The interdisciplinary nature of biodiversity conservation is reflected throughout

the book. Each essay examines the fundamental principles of the topic, the methodologies involved and, crucially, the human dimension. In this way, Key Topics in Conservation Biology 2, like its sister volume, Key Topics in Conservation Biology, embraces issues from cutting-edge ecological science to policy, environmental economics, governance, ethics, and the practical issues of implementation. Key Topics in Conservation Biology 2 will, like its sister volume, be a valuable resource in universities and colleges, government departments, and conservation agencies. It is aimed particularly at senior undergraduate and graduate students in conservation biology and wildlife management and wider ecological and environmental subjects, and those taking Masters degrees in any field relevant to conservation and the environment. Conservation practitioners, policy-makers, and the wider general public eager to understand more about important environmental issues will also find this book invaluable.

High-Performance Fibres J. W. S. Hearle 2001-10-26 This important new handbook provides comprehensive coverage of how high performance fibres are designed and manufactured and covers their capabilities and applications. The high-modulus, high-tenacity (HM-HT) fibres fall naturally into three groups – polymer fibres such as aramids and polyethylene fibres; carbon fibres such as Kevlar; and inorganic fibres based on glass and ceramic fibres. The book shows how high performance fibres are being increasingly used for a wide range of applications including geotextiles and geomembranes and for construction and civil engineering projects as well as in specialist fibres within composite materials where their ability to fulfil demanding roles makes them an effective choice for the engineer and materials scientist. Provides a comprehensive overview of how high performance fibres are designed and manufactured and covers their capabilities and applications Explains how high performance fibres are being increasingly used for a wide range of applications, including geotextiles and geomembranes and

construction and civil engineering projects

High Mountain Conservation in a Changing World Jordi Catalan 2017-08-03

This book provides case studies and general views of the main processes involved in the ecosystem shifts occurring in the high mountains and analyses the implications for nature conservation. Case studies from the Pyrenees are preponderant, with a comprehensive set of mountain ranges surrounded by highly populated lowland areas also being considered. The introductory and closing chapters will summarise the main challenges that nature conservation may face in mountain areas under the environmental shifting conditions. Further chapters put forward approaches from environmental geography, functional ecology, biogeography, and paleoenvironmental reconstructions. Organisms from microbes to large carnivores, and ecosystems from lakes to forest will be considered. This interdisciplinary book will appeal to researchers in mountain ecosystems, students and nature professionals. This book is open access under a CC BY license.

**GeoComputation and Public Health** Gouri Sankar Bhunia 2022-06-26

GeoComputation and Public Health is fundamentally a multi-disciplinary book, which presents an overview and case studies to exemplify numerous methods and solicitations in addressing vector-borne diseases (e.g, Visceral leishmaniasis, Malaria, Filariasis). This book includes a practical coverage of the use of spatial analysis techniques in vector-borne disease using open source software solutions. Environmental factors (relief characters, climatology, ecology, vegetation, water bodies etc.) and socio-economic issues (housing type & pattern, education level, economic status, income level, domestic animals, census data, etc) are investigated at micro-level and large scale in addressing the various vector-borne disease. This book will also generate a framework for interdisciplinary discussion, latest innovations, and discoveries on public health. The first section of the book highlights the basic and principal aspects

of advanced computational practices. Other sections of the book contain geo-simulation, agent-based modeling, spatio-temporal analysis, geospatial data mining, various geocomputational applications, accuracy and uncertainty of geospatial models, applications in environmental, ecological, and biological

modeling and analysis in public health research. This book will be useful to the postgraduate students of geography, remote sensing, ecology, environmental sciences and research scholars, along with health professionals looking to solve grand challenges and management on public health.