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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 ecophysiology. 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.

GeoComputation and Public Health Gourri Sankar Bhunia 2021-06-14 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 vectors borne diseases (e.g. Visceral leishmaniasis, Malaria, Filaria). 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, domestics' 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.

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

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

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.

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 peoples' 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 reintroduction 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 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 theoretical 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.

The Boatowner's Guide to Corrosion Everett Collier 2006-07-12 "The best explanation that I have seen of corrosion on boats."—Nigel Calder, author of Boatowner's Mechanical and Electrical Manual "A powerful weapon in the war against metal deterioration."—Cruising World Corrosion is a constant, often expensive, and sometimes dangerous problem for boaters. Moisture, salt, electrical currents, and chemicals create a potent combination that can attack the metallic (and sometimes nonmetallic) parts of your boat. Everett Collier, an expert in marine technology, details all the types of corrosion—including simple galvanic, electrochemical, and electrolytic—and explains how to identify, combat, and prevent them. The most comprehensive book on this subject, The Boatowner's Guide to Corrosion shows you how to: Prevent corrosion with proper grounding, cathodic protection, protective coatings, and careful selection and matching of metal parts Protect your boat's hull, deck gear, masts, and rigging, as well as its propulsion, electrical, plumbing, and steering systems Recognize and cure developing corrosion before it can damage your boat

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.

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.

Marine Diesel Engines Cuthbert Coulson Pounder 1972

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

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.

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.

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.

Cruising World 1991-04

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.

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.

Elements of Yacht Design Norman Locke Skene 1904

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 forefront 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 2020-10-29 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.

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.

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.

Practical Applications of Computational Biology & Bioinformatics, 14th International Conference (PACBB 2020) Gabriella Panuccio 2021-07-24 This book highlights the latest research on practical applications of computational biology and bioinformatics, and addresses emerging experimental and sequencing techniques that are posing new challenges for bioinformatics and computational biology. Successfully applying these techniques calls for new algorithms and approaches from fields such as statistics, data mining, machine learning, optimization, computer science, and artificial intelligence. In response to these challenges, we have seen the rise of a new generation of interdisciplinary scientists with a strong background in the biological and computational sciences. These proceedings include 21 papers covering many different subfields of bioinformatics and computational biology. Focusing on interdisciplinary applications that combine e.g. bioinformatics, cheminformatics, and system biology, they are intended to promote the collaboration of scientists from different research groups and with different backgrounds (computer scientists, mathematicians, biologists) to reach breakthrough solutions and overcome the challenges outlined above.

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.'

Science Citation Index 1993 Vols. for 1964- have guides and journal lists.

Geospatial Visualisation Antoni Moore 2012-10-02 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.

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 books 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

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 Guimarães, 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.

Mobility Data Management and Exploration Nikos Pelekis 2014-07-08 This text integrates different mobility data handling processes, from database management to multi-dimensional analysis and mining, into a unified presentation driven by the spectrum of requirements raised by real-world applications. It presents a step-by-step methodology to understand and exploit mobility data: collecting and cleansing data, storage in Moving Object Database (MOD) engines, indexing, processing, analyzing and mining mobility data. Emerging issues, such as semantic and privacy-aware querying and mining as well as distributed data processing, are also covered. Theoretical presentation is smoothly interchanged with hands-on exercises and case studies involving an actual MOD engine. The authors are established experts who address both theoretical and practical dimensions of the field but also present valuable prototype software. The background context, clear explanations and sample exercises make this an ideal textbook for graduate students studying database management, data mining and geographic information systems.

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

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.

Advances in Groundwater Governance Karen G. Villhøth 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.

Web and Wireless Geographical Information Systems] Mark Ware 2007-11-16 This book constitutes the refereed proceedings of the 7th International Symposium on Web and Wireless Geographical Information Systems, W2GIS 2007, held in Cardiff, UK, in November 2007. The 21 revised full papers presented were carefully reviewed and selected from 45 submissions. The papers provide an up-to-date review of advances in recent development of Web and wireless geographical information systems, and address a broad range of issues like conceptual and logical models for W2GIS.

Management and Development of Agricultural and Natural Resources in Egypt's Desert Ahmed A. Elkhouly 2021-06-01 This book reviews the economic potential of various natural resources found in the Egyptian deserts that could help fill the food gap in Egypt, e.g., the date palm, olives, and domestic animals. Bearing in mind that the entire country is subject to arid or hyperarid climatic conditions, only a small portion (3% of total area) is agriculturally productive in comparison, the dominant deserts. These aspects, combined with a growing population (ca. 100 million citizens) and water resources scarcity, have produced severe adverse effects on natural resource utilization. This book presents innovative methods for addressing desert soil's key problems (soil erosion, salinity, pollution, decreased fertility, minerals, and weed and pest control). Its goal is to help authorities reclaim the desert and optimally utilize the minerals and the available natural resources to support the sustainability agenda 2030. Besides, it offers researchers guidance on remaining gaps and future research directions. Lastly and importantly, it provides essential information on investment opportunities in desert cultivation, such as the fields of food, fodder, and medicinal plants.

Seismic Design of Industrial Facilities Sven Klinkel 2013-09-04 Seismic Design of Industrial Facilities demands a deep knowledge on the seismic behaviour of the individual structural and non-structural components of the facility, possible interactions and last but not least the individual hazard potential of primary and secondary damages. From 26.-27. September 2013 the International Conference on Seismic Design of Industrial Facilities firstly addresses this broad field of work and research in one specialized conference. It brings together academics, researchers and professional engineers in order to discuss the challenges of seismic design for new and existing industrial facilities and to compile innovative current research. This volume contains 50 contributions to the SeDiF-Conference covering the following topics with respect to the specific conditions of plant design: · International building codes and guidelines on the seismic design of industrial facilities · Seismic design of non-structural components · Seismic design of silos and liquid-filled tanks · Soil-structure-interaction effects · Seismic safety evaluation, uncertainties and reliability analysis · Innovative seismic protection systems · Retrofitting The SeDiF-Conference is hosted by the Chair of Structural Statics and Dynamics of RWTH Aachen University, Germany, in cooperation with the Institute for Earthquake Engineering of the Dalian University of Technology, China.

Cruising World 1996-01

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

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

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.

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 in a clear 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.