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Climate Change Adaptation Strategies – An Upstream-downstream Perspective UN
This collection focuses on energy efficient technologies including innovative ore beneficiation, smelting technologies, recycling and waste heat recovery. The volume also covers various technological aspects of sustainable energy ecosystems, processes that improve energy efficiency, reduce thermal emissions, and reduce carbon dioxide and other greenhouse emissions. Papers addressing renewable energy resources for metals and materials production, waste heat recovery and other industrial energy efficient technologies, new concepts or devices for energy generation and conversion, energy efficiency improvement in process engineering, sustainability and life cycle assessment of energy systems, as well as the thermodynamics and modeling for sustainable metallurgical processes are included. This volume also includes topics on CO2 sequestration and reduction in greenhouse gas emissions from process engineering, sustainable technologies in extractive metallurgy, as well as the materials processing and manufacturing industries with reduced energy consumption and CO2 emission. Contributions from all areas of non-nuclear and non-traditional energy sources, such as solar, wind, and

biomass are also included in this volume. Papers from the following symposia are presented in the book: Energy Technologies and CO2 Management Advanced Materials for Energy Conversion and Storage Deriving Value from Challenging Waste Streams: Recycling and Sustainability Joint Session Solar Cell Silicon Stored Renewable Energy in Coal
Mineral Dust Butterworth-Heinemann
This open access book explores the strategic importance and advantages of adopting multidisciplinary and multiscale approaches of inquiry and intervention with respect to the built environment, based on principles of sustainability and circular economy strategies. A series of key challenges are considered in depth from a multidisciplinary perspective, spanning engineering, architecture, and regional and urban economics. These challenges include strategies to relaunch socioeconomic development through regenerative processes, the regeneration of urban spaces from the perspective of resilience, the development and deployment of innovative products and processes in the construction sector in order to comply more fully with the principles of sustainability and circularity, and the development of multiscale approaches to enhance the performance of both the existing building stock and new buildings. The book offers a rich selection of conceptual, empirical, methodological, technical, and case study/project-based research. It will be of value for all who have an interest in regeneration of the built environment from a circular economy perspective.
Canadian Fisherman & Ocean Science Springer Science & Business Media
Intended for those interested in applied aspects of food microbiology, for 17 commodity areas, this book describes the initial microbial flora

and the prevalence of pathogens, the microbiological consequences of processing, spoilage patterns, episodes implicating those commodities with foodborne illness, and measures to control pathogens.
Autocar Springer Science & Business Media
Advances in Safety, Reliability and Risk Management contains the papers presented at the 20th European Safety and Reliability (ESREL 2011) annual conference in Troyes, France, in September 2011. The books covers a wide range of topics, including: Accident and Incident Investigation; Bayesian methods; Crisis and Emergency Management; Decision Making
Organic Waste Recycling: Technology, Management and Sustainability Springer Science & Business Media
"This edited volume focuses on the latest and most impactful advancements of multimedia data globally available for environmental and earth . The data reflects the status, behavior, change as well as human interests and concerns which are increasingly crucial for understanding environmental issues and phenomena. This volume addresses the need for the development of advanced methods, techniques and tools for collecting, managing, analyzing, understanding and modeling environmental & biodiversity data, including the automated or collaborative species identification, the species distribution modeling and their environment, such as the air quality or the bio-acoustic monitoring. Researchers and practitioners in multimedia and environmental topics will find the chapters essential to their continued studies."--
Energy Technology 2018 Wageningen Academic Pub
Since 1958 the Maritime Administration has continuously conducted instructions in use of collision avoidance radar for qualified U.S. seafaring personnel and representatives of interested Federal and State Agencies. Beginning in 1963, to facilitate the expansion of training capabilities and at the same time to provide the most modern techniques in training methods, radar simulators were installed in Maritime Administration's three region schools. It soon became apparent that to properly instruct the

trainees, even with the advanced equipment, a standardize up-to-date instruction manual was needed. The first manual was later revised to serve both as a classroom textbook and as an onboard reference handbook. This newly updated manual, the fourth revision, in keeping with Maritime Administration policy, has been restructured to include improved and more effective methods of plotting techniques for use in Ocean, Great Lakes, Coastwise and Inland Waters navigation. Robert J. Blackwell Assistant Secretary for Maritime Affairs

Blizzards and Broken Grouzers GNSS Technology and Applicatio
Fragility functions constitute an emerging tool for the probabilistic seismic risk assessment of buildings, infrastructures and lifeline systems. The work presented in this book is a partial product of a European Union funded research project SYNER-G (FP7 Theme 6: Environment) where existing knowledge has been reviewed in order to extract the most appropriate fragility functions for the vulnerability analysis and loss estimation of the majority of structures and civil works exposed to earthquake hazard. Results of other relevant European projects and international initiatives are also incorporated in the book. In several cases new fragility and vulnerability functions have been developed in order to better represent the specific characteristics of European elements at risk. Several European and non-European institutes and Universities collaborated efficiently to capitalize upon existing knowledge. State-of-the-art methods are described, existing fragility curves are reviewed and, where necessary, new ones are proposed for buildings, lifelines, transportation infrastructures as well as for utilities and critical facilities. Taxonomy and typology definitions are synthesized and the treatment of related uncertainties is discussed. A fragility function manager tool and fragility functions in electronic form are provided on extras.springer.com. Audience
The book aims to be a standard reference on the fragility functions to be used for the seismic vulnerability and probabilistic risk assessment of the most important elements at risk. It is of particular interest to earthquake engineers, scientists and researchers working in the field of earthquake risk assessment, as well as the insurance industry, civil protection and emergency management agencies.

Advances in Safety, Reliability and Risk Management CRC Press
Climate and other environmental changes are drawing unprecedented concern and attention from national governments, international organizations and local communities. Global warming has left noticeable impacts on the environment and the ecosystems it supports (including humans), and has important implications for sustainable economic and social development in the future. Satellite observations of climate and environmental change have become an increasingly important tool in recent years in helping to

shape the response of international communities to this critical global challenge. The book presents the latest advances in satellite-based remote sensing of the Earth's environment - ranging from applications in climate and atmospheric science to hydrology, oceanography, hydrology, geomorphology, ecology and fire studies. Introductory chapters also cover key technical aspects such as instrumentation, calibration, data analysis, and GIS tools for decision-making.

Inertial Navigation Systems Analysis IWA Publishing
Prepare yourself for any type of audit and minimise security findings
DESCRIPTION
This book is a guide for Network professionals to understand real-world information security scenarios. It offers a systematic approach to prepare for security assessments including process security audits, technical security audits and Penetration tests. This book aims at training pre-emptive security to network professionals in order to improve their understanding of security infrastructure and policies. With our network being exposed to a whole plethora of security threats, all technical and non-technical people are expected to be aware of security processes. Every security assessment (technical/ non-technical) leads to new findings and the cycle continues after every audit. This book explains the auditor's process and expectations.
KEY FEATURES
It follows a lifecycle approach to information security by understanding: Why we need Information security How we can implement How to operate securely and maintain a secure posture How to face audits
WHAT WILL YOU LEARN
This book is solely focused on aspects of Information security that Network professionals (Network engineer, manager and trainee) need to deal with, for different types of Audits. Information Security Basics, security concepts in detail, threat Securing the Network focuses on network security design aspects and how policies influence network design decisions. Secure Operations is all about incorporating security in Network operations. Managing Audits is the real test.
WHO THIS BOOK IS FOR
IT Heads, Network managers, Network planning engineers, Network Operation engineer or anybody interested in understanding holistic network security.
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_1. Basics of Information Security
2. Threat Paradigm
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Access Control
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Coastal Lagoons in Europe Packt Publishing Ltd
Flooding is one of the most devastating natural hazards in the world. Available records suggest that both flood frequency and severity are on the rise and this is likely to worsen in the context of climate change. As population, infrastructure and poverty grow rapidly in developing countries, particularly in urban agglomerations of 10 million people or more, floods could cause widespread devastation, economic damage and loss of life. Assessment of vulnerability and risk from naturally occurring phenomena is therefore imperative in order to achieve urban sustainability. This book uses geospatial techniques to evaluate hazards, risk and vulnerability at a metropolitan scale in a data-scarce country. An empirical study was performed using remote sensing, GIS and census data. This research offers a new approach to mapping population, infrastructures and communities at risk which can greatly contribute to the deeper understanding of flood disasters in a rapidly expanding megacity. Examples shown in this book are from Dhaka Megacity, however, the techniques and methods can easily be implemented in medium to large cities of similar characteristics. The book is essential reading for hazard researchers, geospatial scientists, disaster management professionals, geographers, urban planners, and social scientists. Ashraf M. Dewan is currently a Lecturer in the Department of Spatial Sciences at Curtin University, Western Australia (on leave from his substantive position as Associate Professor in the Geography & Environment Department at the University of Dhaka, Bangladesh).
Regional Environmental Changes in Siberia and Their Global Consequences Springer Science & Business Media
Assessing and Measuring Environmental Impact and Sustainability answers the question "what are the available methodologies to assess the environmental sustainability of a product, system or process? Multiple well-known authors share their expertise in order to give a broad perspective of this issue from a chemical and environmental engineering

perspective. This mathematical, quantitative book includes many case studies to assist with the practical application of environmental and sustainability methods. Readers learn how to efficiently assess and use these methods. This book summarizes all relevant environmental methodologies to assess the sustainability of a product and tools, in order to develop more green products or processes. With life cycle assessment as its main methodology, this book speaks to engineers interested in environmental impact and sustainability. Helps engineers to assess, evaluate, and measure sustainability in industry Provides workable approaches to environmental and sustainability assessment Readers learn tools to assess the sustainability of a process or product and to design it in an environmentally friendly way

Safety of Navigation Springer Nature
This volume presents a state-of-the-art assessment of the Earth's climate system in Siberia and relationships between climate, ecosystems and people in that region. Changes in climatic variables and land cover in Siberia are among the earliest indicators of the Earth's response to climate warming. The volume is a compilation of results from studies on climate, land-cover and land-use changes and their interactions with biogeochemical and water cycles, atmospheric aerosol, and human and wildlife populations in Siberia. Regional changes in Siberia are predicted to affect climate and people on a global scale. NASA, the Russian Academy of Sciences, and several European institutions have supported these studies. The primary supporter of the projects that produced the results compiled in this volume is the NASA Land-Cover/Land-Use Change Program, hence most studies use remote sensing in their research. The chapters in this volume were written by an international team of scientists from the USA, Europe and Russia under the auspices of the Northern Eurasia Earth Science Partnership Initiative (NEESPI). This book will be of interest to those involved in studying recent and ongoing changes in Siberia, be they senior scientists, early career scientists or students.

Seamless Prediction of the Earth System Springer Nature

This book provides insights on a broad spectrum of renewable and sustainable energy technologies from the world's leading experts. It highlights the latest achievements in policy, research and applications, keeping readers up-to-date on progress in this rapidly advancing field. Detailed studies of technological breakthroughs and optimizations are contextualized with in-depth examinations of experimental and industrial installations, connecting lab innovations to

success in the field. The volume contains selected papers presented at technical and plenary sessions at the World Renewable Energy Congress, the world's premier conference on renewable energy and sustainable development. Held every two years, the Congress provides an international forum that attracts hundreds of delegates from more than 60 countries.

Jane's Airport Equipment Springer
Get the most out of JavaScript for building web applications through a series of patterns, techniques, and case studies for clean coding
Key FeaturesWrite maintainable JS code using internal abstraction, well-written tests, and well-documented codeUnderstand the agents of clean coding like SOLID principles, OOP, and functional programmingExplore solutions to tackle common JavaScript challenges in building UIs, managing APIs, and writing states
Book DescriptionBuilding robust apps starts with creating clean code. In this book, you'll explore techniques for doing this by learning everything from the basics of JavaScript through to the practices of clean code. You'll write functional, intuitive, and maintainable code while also understanding how your code affects the end user and the wider community. The book starts with popular clean-coding principles such as SOLID, and the Law of Demeter (LoD), along with highlighting the enemies of writing clean code such as cargo culting and over-management. You'll then delve into JavaScript, understanding the more complex aspects of the language. Next, you'll create meaningful abstractions using design patterns, such as the Class Pattern and the Revealing Module Pattern. You'll explore real-world challenges such as DOM reconciliation, state management, dependency management, and security, both within browser and server environments. Later, you'll cover tooling and testing methodologies and the importance of documenting code. Finally, the book will focus on advocacy and good communication for improving code cleanliness within teams or workplaces, along with covering a case study for clean coding. By the end of this book, you'll be well-versed with JavaScript and have learned how to create clean abstractions, test them, and communicate about them via documentation. What you will learnUnderstand the true purpose of

code and the problems it solves for your end-users and colleaguesDiscover the tenets and enemies of clean code considering the effects of cultural and syntactic conventionsUse modern JavaScript syntax and design patterns to craft intuitive abstractionsMaintain code quality within your team via wise adoption of tooling and advocating best practicesLearn the modern ecosystem of JavaScript and its challenges like DOM reconciliation and state managementExpress the behavior of your code both within tests and via various forms of documentationWho this book is for This book is for anyone who writes JavaScript, professionally or otherwise. As this book does not relate specifically to any particular framework or environment, no prior experience of any JavaScript web framework is required. Some knowledge of programming is assumed to understand the concepts covered in the book more effectively.

SYNER-G: Typology Definition and Fragility Functions for Physical Elements at Seismic Risk Springer Science & Business Media
Depicting the pioneering spirit of geophysics, this memoir recounts Antarctic field operations in 1970–71 acquiring ice thickness data with radar, gravity, and magnetometer measurements. The data collected now underpin models of ice behavior used to assess climate change.

Floods in a Megacity Butterworth-Heinemann
Climate change and the related adverse impacts are among the greatest challenges facing humankind during the coming decades. Even with a significant reduction of anthropogenic greenhouse gas emissions, it will be inevitable for societies to adapt to new climatic conditions and associated impacts and risks. This book offers insights to first experiences of developing and implementing adaptation measures, with a particular focus on mountain environments and the adjacent downstream areas. It provides a comprehensive 'state-of-the-art' of climate change adaptation in these areas through the collection and evaluation of knowledge from several local and regional case studies and by offering new expertise and insights at the global level. As such, the book is an important source for scientists, practitioners and decision makers alike, who are working in the field of climate change adaptation and towards sustainable development in the sense of the Paris Agreement and the Agenda 2030.

Satellite-based Applications on Climate Change BPB Publications

This fourth edition of Organic Waste Recycling is fully updated with new material to create a comprehensive and accessible textbook: - New chapter on constructed wetlands for wastewater and faecal sludge stabilization. - New sections on: waste recycling vs. climate change and water; faecal

sludge and its characteristics; hydrothermal carbonization technology; up-to-date environmental criteria and legislation and environmental risk assessment. - New case studies with emphasis on practices in both developed and developing countries have been included, along with more exercises at the end of chapters to help the readers understand the technical principles and their application. - Novel concepts and strategies of waste management are presented. - Up-to-date research findings and innovative technologies of waste recycling program are provided. This textbook is intended for undergraduate and graduate students majoring in environmental sciences and engineering as well as researchers, professionals and policy makers who conduct research and practices in the related fields. It is essential reading for experts in environmental science and engineering and sustainable waste reuse and recycling in both developed and developing countries.

Assessing and Measuring Environmental Impact and Sustainability Springer

Container transportation is the predominant mode of inter-continental cargo traffic. Since container ships and port terminals involve a huge capital investment and significant daily operating costs, it is of crucial importance to efficiently utilize the internal resources of container terminals and transportation systems. Today there is an ongoing trend to use automated container handling and transportation technology, in particular, in countries with high labour costs. This in turn requires highly sophisticated control strategies in order to meet the desired performance measures. The primary objective of this book is to reflect these recent developments and to present new insights and successful solutions to operational problems of automated container terminals and transportation systems. It comprises reports on the state of the art, applications of quantitative methods, as well as case studies and simulation results. Its contributions are written by leading experts from academia and business. The book addresses practitioners as well as academic researchers in logistics, transportation, and management.

Integrated Systems of Meso-Meteorological and Chemical Transport Models IWA Publishing

This book, as the outcome of the COST-728/NetFAM workshop, focuses on the following main topics: 1) on-line coupled meteorology-chemistry modelling with two-way feedbacks, 2) off-line coupled modelling and interfaces, 3) validation and case studies including air quality related episodes, and 4) integration of atmospheric chemical transport (ACT) models with numerical weather prediction (NWP). This book is one of the first attempts to give an overall look on such integrated meso-meteorology and chemistry modelling approach. It reviews the current

situation with the on-line and off-line coupling of mesoscale meteorological and ACT models worldwide as well as discusses advantages and shortcomings, best practices, and gives recommendations for on-line and off-line coupling of NWP and ACT models, implementation strategy for different feedback mechanisms, direct and indirect effects of aerosols and advanced interfaces between both types of models. The book is oriented towards numerical weather prediction and air quality modelling communities.

Medium-Range Weather Prediction

Springer Science & Business Media

The discipline of instrumentation has grown appreciably in recent years because of advances in sensor technology and in the interconnectivity of sensors, computers and control systems. This 4e of the Instrumentation Reference Book embraces the equipment and systems used to detect, track and store data related to physical, chemical, electrical, thermal and mechanical properties of materials, systems and operations. While traditionally a key area within mechanical and industrial engineering, understanding this greater and more complex use of sensing and monitoring controls and systems is essential for a wide variety of engineering areas--from manufacturing to chemical processing to aerospace operations to even the everyday automobile. In turn, this has meant that the automation of manufacturing, process industries, and even building and infrastructure construction has been improved dramatically. And now with remote wireless instrumentation, heretofore inaccessible or widely dispersed operations and procedures can be automatically monitored and controlled. This already well-established reference work will reflect these dramatic changes with improved and expanded coverage of the traditional domains of instrumentation as well as the cutting-edge areas of digital integration of complex sensor/control systems. Thoroughly revised, with up-to-date coverage of wireless sensors and systems, as well as nanotechnologies role in the evolution of sensor technology Latest information on new sensor equipment, new measurement standards, and new software for embedded control systems, networking and automated control Three entirely new sections on Controllers, Actuators and Final Control Elements; Manufacturing Execution Systems; and Automation Knowledge Base Up-dated and expanded references and critical standards