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Practical Hydrogeology: Principles and Field Applications, Third Edition Willis D. Weight 2019-02-01 Master the latest advances in hydrogeology using this fully updated resource This thoroughly revised guide clearly explains cutting-edge hydrogeology techniques that can be applied in the field. Featuring contributions from leading experts, Practical Hydrogeology: Principles and Field Applications, Third Edition, shows how to plan and conduct site investigations, avoid pitfalls in the field, interpret a wide array of data types gathered, and prepare water-quality reports. You will get complete coverage of key procedures, including aquifer testing, groundwater sampling, water-quality assessment, aquifer characterization, and tracer tests. This third edition has been reorganized and expanded with up-to-date information, a new chapter, review questions, and real-world examples. Coverage includes:•Field hydrogeology•The geology of hydrogeology•Aquifer properties•Groundwater flow•Pumping tests•Slug testing•Aquifer hydraulics•Water chemistry sampling•Groundwater/surface-water interaction•Vadose-zone analysis•Karst hydrogeology and tracer tests•Drilling and well completion
[Book Catalog of the Library and Information Services Division: Shelf List catalog](#) Environmental Science Information Center. Library and Information Services Division 1977

Environmental Management and Governance Charles W. Finkl 2014-09-16 This book deals with recent advances in coastal marine environmental management and governance. Various chapters consider new aspects of conservation, assessment of ecosystem health status, environmental survey and protection, frameworks of ocean service and governance, new applications of geo processing and GIS technology, beach management, aquaculture site selection, assessment of water quality (brine disposal and temperature dispersion from nuclear power plants), exploration and management of coastal karst, changing perceptions of dune management, advances in interpretation of sea-level indicators and real time environmental monitoring. New advances in both environmental management and governance are of the utmost importance for sustaining critical coastal marine areas. Offering such a diverse collection of works from coastal scientists around the world, who discuss many techniques and methods at the forefront of management and governance, this publication will be of interest to coastal researchers, coastal zone managers and regulatory agency personnel.

[The Archaeology of Europe's Drowned Landscapes](#) Geoff Bailey 2020-01-01 This open access volume provides for the first time a comprehensive description and scientific evaluation of underwater archaeological finds referring to human occupation of the continental shelf around the coastlines of Europe and the Mediterranean when sea levels were lower than present. These are the largest body of underwater finds worldwide, amounting to over 2500 find spots, ranging from individual stone tools to underwater villages with unique conditions of preservation. The material reviewed here ranges in date from the Lower Palaeolithic period to the Bronze Age and covers 20 countries bordering all the major marine basins from the Atlantic coasts of Ireland and Norway to the Black Sea, and from the western Baltic to the eastern Mediterranean. The finds from each country are presented in their archaeological context, with information on the history of discovery, conditions of preservation and visibility, their relationship to regional changes in sea-level and coastal geomorphology, and the institutional arrangements for their investigation and protection. Editorial introductions summarise the findings from each of the major marine basins. There is also a final section with extensive discussion of the historical background and the legal and regulatory frameworks that inform the management of the underwater cultural heritage and collaboration between offshore industries, archaeologists and government agencies. The volume is based on the work of COST Action TD0902 SPLASHCOS, a multi-disciplinary and multi-national research network supported by the EU-funded COST organisation (European Cooperation in Science and Technology). The primary readership is research and professional archaeologists, marine and Quaternary scientists, cultural-heritage managers, commercial and governmental organisations, policy makers, and all those with an interest in the sea floor of the continental shelf and the human impact of changes in climate, sea-level and coastal geomorphology.

[Advances in Karst Research](#) M. Parise 2018-06-18 This volume covers major advances in the study of the geomorphology, hydrology, engineering geology and management of these specialized and fragile environments. The book will be valuable for geologists, engineers and geophysicists interested in karst, along with land planners, developers, and managers of show caves, natural parks and reserves in karst areas.

Online Databases and Other Internet Resources for Earth Science Pillarisetty Venkataramana 2007-10-31 Though an enormous amount of information relating to earth sciences are available on the Internet, for a serious researcher, teacher, librarian or a student who has deadlines to meet, searching the Internet for specific scientific information can at times be frustrating. The main purpose of Online Databases and Other Internet Resources for Earth Science is to group these resources together and to provide the URLs and hyperlinks so a researcher, teacher or student can access them with the minimum effort, time and cost. The book also introduces the reader to a few basic concepts that propel the Internet and the world wide web so that he or she can make informed searches apart from assessing the quality and reliability of the data available on the internet. A brief introduction is provided on the current status of the draft treaty by the World Intellectual Property Organization (WIPO) and the EU directive on copyright restrictions for scientific databases and what a researcher is permitted to do with the data obtained from the Internet, especially those from a commercial data provider. Earth science resources on the Internet are grouped into various categories: such as journals, databases, multimedia, directories, teaching aids and mailing lists Online earth science publications and a list of open access publications related to earth sciences The databases are further grouped into bibliographic data, specimen collection, chemical analysis, geophysical data, etc.

Library of Congress Subject Headings: P-Z Library of Congress. Subject Cataloging Division 1988

Oceanography and Marine Biology: An Annual Review, Volume 59 S J Hawkins 2021-10-11 CHOICE Highly Recommended, Sept 2022 Oceanography and Marine Biology: An Annual Review remains one of the most cited sources in marine science and oceanography. The ever-increasing interest in work in oceanography and marine biology and its relevance to global environmental issues, especially global climate change and its impacts, creates a demand for authoritative refereed reviews summarizing and synthesizing the results of recent research. If you are interested in submitting a review for consideration for publication in OMBAR, please email the Editor in Chief, Stephen Hawkins, at S.J.Hawkins@soton.ac.uk. For nearly 60 years, OMBAR has been an essential reference for research workers and students in all fields of marine science. This volume considers such diverse topics as the Great Barrier Reef Expedition of 1928-29, Mediterranean marine caves, macromedusae in eastern boundary currents, marine biodiversity in Korea, and development of a geo-ecological carbonate reef system model to predict responses of reefs to climate change. Seven of the peer-reviewed contributions in Volume 59 are available to read Open Access on this webpage (1, 2, 3, 4, 5, 6 and 9). An international Editorial Board ensures global relevance and expert peer review, with editors from Australia, Canada, Hong Kong, Ireland, Singapore and the United Kingdom. The series volumes find a place in the libraries of not only marine laboratories and oceanographic institutes, but also universities worldwide.

Hypogene Karst Regions and Caves of the World Alexander Klimchouk 2017-08-17 This book illustrates the diversity of hypogene speleogenetic processes and void-conduit patterns depending on variations of the geological environments by presenting regional and cave-specific case studies. The cases include both well-known and newly recognized hypogene karst regions and caves of the world. They all focus on geological, hydrogeological, geodynamical and evolutionary contexts of hypogene speleogenesis. The last decade has witnessed the boost in recognition of the possibility, global occurrence, and practical importance of hypogene karstification (speleogenesis), i.e. the development of solutional porosity and permeability by upwelling flow, independent of recharge from the overlying or immediately adjacent surface. Hypogene karst has been identified and documented in many regions where it was previously overlooked or misinterpreted. The book enriches the basis for generalization and categorization of hypogene karst and thus improves our ability to adequately model hypogene karstification and predict related porosity and permeability. It is a book which benefits every researcher, student, and practitioner dealing with karst.

Cave and Worship in Ancient Greece Stella Katsarou 2020-12-30 Cave and Worship in Ancient Greece brings together a series of stimulating chapters contributing to the archaeology and our modern understanding of the character and importance of cave sanctuaries in the first millennium BCE Mediterranean. Written by emerging and established archaeologists and researchers, the book employs a fascinating and wide range of approaches and methodologies to investigate, and interpret material assemblages from cave shrines, many of which are introduced here for the first time. An introductory section explores the emergence and growth of caves as centres of cult and religion. The chapters then probe some of the meanings attached to cave spaces and votive materials such as terracotta figurines, and ceramics, and those who created and used them. The authors use sensory and gender approaches, discuss the identity of the worshippers, and the contribution of statistical analysis to the role of votive materials. At the heart of the volume is the examination of cave materials excavated on the Cycladic islands and Crete, in Attika and Aitolokarnania, on the Ionian islands and in southern Italy. This is a welcome volume for students of prehistoric and classical archaeology, enthusiasts of the history of caves, religion, ancient history, and anthropology.

[Coastal Karst Landforms](#) Michael J. Lace 2013-06-28 Carbonate rock coasts are found world-wide, from continental shorelines of the Adriatic Sea of Europe to the Yucatan Peninsula of North America, and on tropical islands from Rodrigues Island in the Indian Ocean, to the Mariana Islands in the Pacific Ocean, to the Bahama Islands in the Atlantic Ocean. Such coasts are well known for their unusual and distinctive karst landforms. Karst processes, particularly those associated with coastal landforms, are proving to be surprisingly unique and complex. This volume presents a comprehensive overview of the processes associated with coastal karst development comparing examples from a broad geographical and geomorphological range of island and continental shoreline/paleoshoreline settings, including a review of pseudokarst processes that can compete with and overprint dynamic coastal karst landscapes. As effective management of hydrologic resources grows more complex, coastal caves and karst represent fundamental components in associated coastal aquifers, which in the rock record can also form significant petroleum reservoirs. Audience By providing a clearer understanding of the geological, biological, archaeological and cultural value of coastal caves and karst resources, this volume offers a critical tool to coastal researchers and geoscientists in related fields and to coastal land managers as it illustrates the diversity of coastal karst landforms, the unique processes which formed them, the diversity of resources they harbor and their relationship to coastal zone preservation strategies and the development of sustainable management approaches.

[The Spanish Coastal Systems](#) Juan A. Morales 2018-09-03 This monograph presents the state of art of the geologic knowledge about the Spanish coast obtained through scientific research in the last 30 years.From a general point of view, coasts are the most quickly changing systems of the Earth. This is critical, since many human resources, such as the main part of economic and social activities, are located in the coastal areas. Especially in the case of Spain these coasts include cities, wide industrial areas (including harbor complexes), important ecologic systems, and our main economic resource: tourism. Understanding the dynamic functioning of each element of this coast is vital for correct future coastal management, so as to solve problems derived from bad plans developed in the last decades of the twentieth century. This is a valuable text for advanced graduate students and coastal researchers, which connects the specific dynamic functioning of the main Spanish coastal environments and their relationships with human activities.

Geologist's library Gérard Sustrac 1984

Coastal World Heritage Sites Vanda Claudino-Sales 2018-09-07 This book presents the natural, environmental and scenic richness of the world's coastal and marine areas classified by UNESCO as "Natural World Heritage Sites". Representing well-preserved areas of exceptional significance to the planet and to humankind, they include a total of 49 marine sites, formed by reefs, atolls and gulfs, and 35 coastal sites in all oceans and all continents with exception of Antarctica. They are being protected and preserved from most degrading uses for future generations as an important legacy from the past.

Exploring their richness, this book analyzes and explains these sites in a clear, understandable, scientific way, and is of interest to all who work in or care about the geosciences, environmental sciences and biosciences.

Landscapes and Landforms of the Lesser Antilles Casey D. Allen 2017-07-19 This book focuses on the highly touristed, but surprisingly under-researched Lesser Antilles region. After offering a brief overview of the region's geologic and tectonic history, as well as its basic climatology, subsequent chapters then discuss each island's (or island set's) geomorphology and geology, and how the settlement history, tourism, and hazards have affected their individual landscapes. Written by regional experts and replete with up-to-date information, stunning color imagery, and beautiful cartography (maps), it is the only comprehensive, scientific evaluation of the Lesser Antilles, and serves as the region's definitive reference resource. Accessible to non-experts and amateur explorers, the book includes in-depth discussions and reference sections for each island/island set. Usable as both a textbook and guidebook, it offers readers a straightforward yet detailed assessment of an interesting and intriguing – but often-overlooked and under-appreciated – locale.

The International Encyclopedia of Geography Douglas Richardson 2017

Coastal Wetlands Gerardo Perillo 2018-11-02 Coastal Wetlands, Second Edition: An Integrated and Ecosystem Approach provides an understanding of the functioning of coastal ecosystems and the ecological services that they provide. As coastal wetlands are under a great deal of pressure from the dual forces of rising sea levels and the intervention of human populations, both along the estuary and in the river catchment, this book covers important issues, such as the destruction or degradation of wetlands from land reclamation and infrastructures, impacts from the discharge of pollutants, changes in river

flows and sediment supplies, land clearing, and dam operations. Covers climate change and its influence on coastal wetland form and function Provides a fully updated and expanded resource, including new chapters on modeling, management and the impact of climate change Contains full-color figures of wetlands and estuaries in different parts of the world

[Book Catalog of the Library and Information Services Division: Author-title-series indexes](#) Environmental Science Information Center. Library and Information Services Division 1977

Grey Literature in Library and Information Studies Dominic Farace 2010-09-27 The further rise of electronic publishing has come to change the scale and diversity of grey literature facing librarians and other information practitioners. This compiled work brings together research and authorship over the past decade dealing with both the supply and demand sides of grey literature. While this book is written with students and instructors of Colleges and Schools of Library and Information Science in mind, it likewise serves as a reader for information professionals working in any and all like knowledge-based communities.

[Karst Rock Features. Karren sculpturing](#) Angel Ginés 2009-01-01

[The Karst Systems of Florida](#) Sam Upchurch 2018-09-29 This book discusses the geology, hydrogeology, and water quality/geochemistry of karst systems in geologically young terrain, using the state of Florida as an example. Also discussed are sinkhole-development models; sinkhole risk; eogenetic karst features developed in rocks as young as 125,000 years and as old as 65 million years; and karst landscapes of Florida, including regional geology and geomorphology with important examples of karst features, such as springs, sinkholes, caves, and other karst landforms. The eogenetic karst of Florida is largely covered and this book extensively discusses the interactions of karst processes with sand- and clay-rich cover materials.

Library of Congress Subject Headings Library of Congress. Subject Cataloging Division 1980

Rock Coast Geomorphology D.M. Kennedy 2014-08-20 Rocky landforms dominate large portions of the world's coast. Cliffs and shore platforms form spectacular landscapes, yet when compared to other landforms they are relatively unstudied with many contemporary controversies dating back to the mid-nineteenth century. The past decade has seen a reinvigoration of research driven by advances in technology that now enable precise measurements of erosion to the micron scale and quantification of wave energy onto and through cliff edifices to be made, as well as being able to directly date rock surfaces. In order to integrate this diverse range of research this volume's regional approach first integrates the latest data with longstanding theory and then analyses this research through the boundary conditions that exist in each area. The volume brings together the research leaders in the field; includes chapters on nearly all the major rock coasts of the world and identifies future research needs.

Quaternary History of the Coorong Coastal Plain, Southern Australia Colin V. Murray-Wallace 2018-04-28 This book provides an up-to-date overview of the Quaternary geological and geomorphological evolution of the Coorong Coastal Plain region and its significance in a global context for understanding long-term records of Quaternary sea-level changes. The Coorong Coastal Plain in southern Australia is a natural laboratory for examining the response of coastal barrier landscapes to relative sea-level changes. The region provides direct evidence of coastal sedimentation during successive interglacials over the past 1 million years, as well as more recent volcanism. The region has received international focus and attracted scientists from around the World, with interests in long-term coastal evolution, sea-level changes, Quaternary dating methods and geochronology, soil development, temperate carbonate sedimentation, karst geomorphology and geologically recent volcanism.

Library of Congress Subject Headings Library of Congress. Cataloging Policy and Support Office 2006

Ecosystems of Disturbed Ground L.R. Walker 1999-12-17 As the human population inexorably grows, its cumulative impact on the Earth's resources is hard to ignore. The ability of the Earth to support more humans is dependent on the ability of humans to manage natural resources wisely. Because disturbance alters resource levels, effective management requires understanding of the ecology of disturbance. This book is the first to take a global approach to the description of both natural and anthropogenic disturbance regimes that physically impact the ground. Natural disturbances such as erosion, volcanoes, wind, herbivory, flooding and drought plus anthropogenic disturbances such as forestry, grazing, mining, urbanization and military actions are considered. Both disturbance impacts and the biotic recovery are addressed as well as the interactions of different types of disturbance. Other chapters cover processes that are important to the understanding of disturbance of all types including soil processes, nutrient cycles, primary productivity, succession, animal behaviour and competition. Humans react to disturbances by avoiding, exacerbating, or restoring them or by passing environmental legislation. All of these issues are covered in this book. Managers need better predictive models and robust data-collections that help determine both site-specific and generalized responses to disturbance. Multiple disturbances have a complex effect on both physical and biotic processes as they interact. This book provides a wealth of detail about the process of disturbance and recovery as well as a synthesis of the current state of knowledge about disturbance theory, with extensive documentation.

Choice 2008

[Book Catalog of the Library and Information Services Division: Shelf List catalog](#) Environmental Science Information Center. Library and Information Services Division 1977

Lakes of the World with Google Earth Anja M. Scheffers 2016-06-14 Featuring satellite imagery from Google Earth, this guide provides a unique, highly visual tour of lakes across the globe, from the simple to the complex, the nearby to the remote. Clear text accompanies each image and identifies important aspects of each lake along with such information as its coordinates, scale, and altitudes, if relevant. From the many aspects of lake science including water budgets, temperature regimes, mixing types, biology/ecology, and chemistry, the book concentrates on the genesis of lakes and other closed forms containing water, moisture/swamps or minerals. Its organisation follows different forms of lake origin (often connected to the question of age) such as extra-terrestrial meteor impacts, structural depressions by tectonic activity, patterning of joints or faults, volcanic origin, or the forming influence of glacier ice, subterranean permafrost, littoral processes, running water, wind, and solution of rocks (karst forms). Coverage also deals with temporal variations in lake existence within the context of climate change in the past and the future. In addition, special chapters are devoted to saline (or salt) lakes, and — in their evaporated forms — to saltpans. Providing essential information at a glance, this guide will be help both specialists and general readers better understand the world's lakes as well as see them in a new perspective.

The History of the Study of Landforms, Or, The Development of Geomorphology Richard J. Chorley 1964 This volume provides a global treatment of historical and regional geomorphic work as it developed from the end of the nineteenth century to the hiatus of the Second World War. The book deals with the burgeoning of the eustatic theory, the concepts of isostasy and epeirogeny, and the first complete statements of the cycle of erosion and of polycyclic denudation chronology.

Encyclopedia of Caves William B. White 2019-05-10 Encyclopedia of Caves, Third Edition, provides detailed background information to anyone with a serious interest in caves. This includes students, both undergraduate and graduate, in the earth, biological and environmental sciences, and consultants, environmental scientists, land managers and government agency staff whose work requires them to know something about caves and the biota that inhabit them. Caves touch on many scientific interests in geology, climate science, biology, hydrology, archaeology, and paleontology, as well as more popular interests in sport caving and cave exploration. Case studies and descriptions of specific caves selected for their special features and public interest are also included. This book will appeal to these audiences by providing in-depth essays written by expert authors chosen for their expertise in their assigned subject. Features 14 new chapters and 13 completely rewritten chapters Contains beautifully illustrated content, with more than 500 color images of cave life and features Provides extensive bibliographies that allow readers to access their subject of interest in greater depth

Textbook of Limnology Gerald A. Cole 2015-11-25 The interdisciplinary nature of limnology requires lucid and well-integrated coverage of biology, chemistry, physics, earth science, and resource management. Paul Weihe skillfully accomplishes this objective in his revision of Gerald Cole's classic limnology text. This long-awaited revision introduces concepts in straightforward terms, replete with detailed examples, elegant illustrations, and up-to-date, well-researched documentation. Outstanding features of the fifth edition include: • A global outlook with examples from every continent • Discussions of the impact of environmental challenges (e.g., climate change, eutrophication, river regulation) with case studies of real-world examples • A chapter devoted to wetlands • A thorough examination of biogeochemistry, including recent anthropogenic alteration and a reconsidered understanding of stoichiometric relationships • Expanded treatment of hydrology, utilizing empirical approaches to discharge determination and effects of land-use changes • A reorganized presentation of biodiversity, explicitly correlating profiles of biota with community ecology and ecosystem function • Updated taxonomy with a description of the new metagenomic approach, nomenclature strictly adhering to the intergovernmental Integrated Taxonomic Information System

Library of Congress Subject Headings Library of Congress 2013

Glaciation and Speleogenesis Max P. Cooper 2015-03-24 Focusing on glaciation and speleogenesis in the region of New York and New England, this book serves as an example of a karst region that has experienced large-scale continental glaciation. It reviews the literature on the controls of glaciation on karst development, exploring examples from the marbles of the Adirondacks, New England and eastern New York, the Ordovician strata of northern New York and the Siluro-Devonian strata of central New York. Each of these areas is examined in detail, demonstrating the evolution of thought on glaciated karst through case studies of individual caves as well as larger cave systems. Additionally, this book describes the geology and glaciation, the evolution of karst landscapes from pre-glacial times to the present and human interaction with the caves in the region.

The History of the Study of Landforms - Volume 3 (Routledge Revivals) Robert P. Beckinsale 2003-10-04 This volume provides a global treatment of historical and regional geomorphic work as it developed from the end of the nineteenth century to the hiatus of the Second World War. The book deals with the burgeoning of the eustatic theory, the concepts of isostasy and epeirogeny, and the first complete statements of the cycle of erosion and of polycyclic denudation chronology.

Sedimentary Coastal Zones from High to Low Latitudes I.P. Martini 2014-10-24 We live in a world where the loss of sea ice and thawing of coastal grounds in the north, and renewed marine transgression and an increase in the frequency of extreme weather events globally, are becoming commonplace. This volume presents a timely examination of coasts, the geological environment at particular risk, as global warming brings on this new reality. In 23 papers, low lying, mainly siliciclastic coasts are reviewed, described and analysed, under a variety of climates in quasi-stable tectonic settings along passive, trailing-continental edges from Polar Regions to the Tropics. Examples include coast of the Arctic seas, temperate to tropical eastern shores of the Americas, western Portugal, Mediterranean, Persian Gulf, South Africa and Australia. The entire coastal zone (landscape) is considered ranging from geophysical processes and products to biological entities including the adaption of Native People in various climatic zones. Knowledge of the state of the coasts now, and how the coastal plain has evolved since Late Pleistocene, is crucial for any realistic planning for the future.

Urban Watersheds Daniel T. Rogers 2020-05-06 Understanding that the natural world beneath our feet is the point at which civilization meets the natural world is critical to the success of restoration and prevention efforts to reduce contaminant impacts and improve the global environment because of one simple fact – contaminants do not respect country borders. Contaminants often begin their destructive journey immediately after being released and can affect the entire planet if the release is in just the right amount, at just the right location, and at just the right time. Taking an interdisciplinary approach, Urban Watersheds, Geology, Contamination, Environmental Regulations, and Sustainability, Second Edition presents more than 30 years of research and professional practice on urban watersheds from the fields of environmental geology, geochemistry, risk analysis, hydrology, and urban planning. The geological characteristics of urbanized watersheds along with the physical and chemical properties of their common contaminants are integrated to assess risk factors for soil, groundwater, and air. This new edition continues to examine the urban environment and the geology beneath urban areas, evaluates the contamination that affects watersheds in urban regions, and addresses redevelopment strategies. Features of the Second Edition: Examines contaminants and the successes of environmental regulation worldwide and highlights the areas that need improvement Describes several advances in investigation techniques in urban regions that now provide a huge leap forward in data collection, resolution, and accuracy Explains the importance of understanding the geological and hydrogeologic environments of urban and developed regions Provides new and enhanced methods presented as a sustainability model for assessing risks to human health and the environment from negative human-induced contaminant impacts Includes a new chapter that surveys how environmental regulations have been successful or have failed at protecting the air, water, and land in urban areas Suitable for use as a textbook and as a professional practice reference, the book includes case studies on successful and unsuccessful approaches to contaminant remediation as well as practical methods for environmental risk assessment. PowerPoint® presentations of selected portions of the book are available with qualifying course adoption. Daniel T. Rogers is currently the Director of Environmental Affairs at Amsted Industries Inc. in Chicago, Illinois. His writings address environmental geology, hydrogeology, geologic vulnerability and mapping, contaminant fate and transport, urban geology, environmental site investigations, contaminant risk, brownfield redevelopment, and sustainability. He has taught geology and environmental chemistry at Eastern Michigan University and the University of Michigan.

Urban Watersheds Martin M. Kaufman 2011-04-25 With the continuing increase in population, more people are sharing the finite resources of the urban watershed, resulting in new and increasingly complex interactions between humans and the environment. Environmental contamination is a chronic problem—and an expensive one. In urban areas, water and soil contamination poses a threat to public health and has implications for future development. Taking an interdisciplinary approach, Urban Watersheds: Geology, Contamination, and Sustainable Development offers a framework for those working to improve the urban environment and create sustainable urban watersheds. The book presents over 20 years of research and professional practice on urban watersheds from the fields of environmental geology, geochemistry, risk analysis, hydrology, and urban planning. The geological characteristics of urbanized watersheds along with the properties of their common contaminants are integrated to assess risk factors for soil, groundwater, and air. With a framework rooted in scientific knowledge, the authors demonstrate the benefits of scientifically informed planning and decision making, offering guidelines to improve watershed management practices as well as urban development and redevelopment practices. Suitable for use as a textbook and as a professional practice reference, the book includes case studies on successful and unsuccessful approaches to contaminant remediation as well as practical methods for environmental risk assessment. PowerPoint® presentations of selected portions of the book are available with qualifying course adoption.

[Under the Sea: Archaeology and Palaeolandscapes of the Continental Shelf](#) Geoffrey N. Bailey 2017-05-16 This book focuses on issues of method and interpretation in studies of submerged landscapes, concentrating on illustrations and case studies from around Europe with additional examples from other parts of the world. Such landscapes were once exposed as dry land during the low sea levels that prevailed during the glacial periods that occupied most of the past million years and provided extensive new territories for human exploitation. Their study today involves underwater investigation, using techniques and strategies which are clearly set out in these chapters. The underwater landscape provides a rich source of information about the archaeology of human settlement and long-term changes in environment, climate and sea-level. This book highlights how such information can be revealed and interpreted. The examples presented here and the focus on techniques make this book of worldwide relevance. Chapters describe examples of underwater archaeological investigation as well as collaboration with offshore industries and legal, management and training issues relating to underwater cultural heritage. Such studies point to the significance of this drowned landscape, and readers are invited to consider its human impact in terms of past settlement and population dispersal through palaeolandscape reconstruction and interpretation in relation to broader themes in human prehistory. This volume is based on work from COST Action SPLASHCOS, a four-year multi-disciplinary and multi-national research program supported by COST (European Cooperation in Science and Technology) and has something to benefit all those with an interest in the sea floor of the continental shelf and the archaeological

and social impact of sea-level change, including archaeologists, marine scientists, geographers, cultural-heritage managers, commercial and governmental organisations, policy makers and interested members of the public.
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