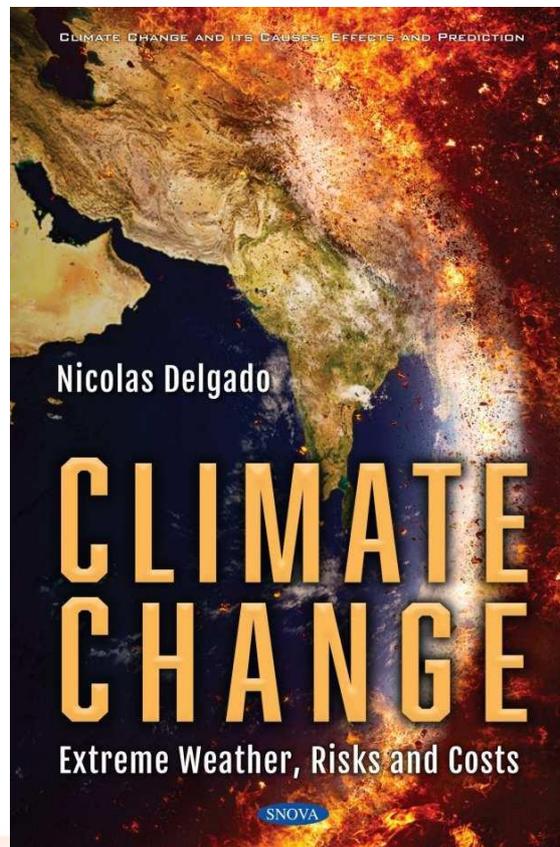




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GEOGRAPHY & ENVIRONMENT



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- Arctic Region & Antarctica Issues & Research
- Climate Change & Its Causes, Effects & Prediction
- Congressional Policies, Practices & Procedures
- Energy Science, Engineering & Technology
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- Waste & Waste Management

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Advances in Environmental Research

Edited by Justin A. Daniels

Advances in Environmental Research. Volume 70 opens with a brief assessment of the Regional Development Plan of Mumbai Metropolitan Region in relation with MSAAPCC, aiming to address the governance considerations required to deal with climate change.

For various food matrices, several spectroscopic techniques and procedures employed to evaluate platinum group metals and thallium are critically discussed. Particular attention is paid to the analytical performance in terms of accuracy and detectability.

The authors discuss how controlling the production of greenhouse gases at the source source through intensive agricultural management, changes in land-use management and enhancing nitrogen use efficiency and stabilize can mitigate climate change to some extent.

Following this, the authors test how the timing of pollutant inputs captures long-term biological sensitivity by comparing exceedance for periods of higher and lower pollution loading to 60-year red spruce tree-ring chronologies across Vermont and New Hampshire, USA.

An analysis of deforestation probability in Partham river basin is carried out based on an AHP model with selected seven parameters such as distance from settlement, distance from river, distance from road, elevation, slope and aspect.

Additionally, this collection explores how, since the early 1990's, the chirality of pesticides and their consequential enantioselectivity has been the subject of hundreds of investigations by scientists around the world.

The current findings on ZnO nanoparticles are discussed, and a systematic review on its common usage, chemical nature, related environmental issue, and its potential toxicity after exposure is provided.

Electrodialysis systems are described in parallel, counter flow, and recirculation, as well as the materials and processes to obtain a clean and cheaper solution for water desalination.

The penultimate chapter is aimed at highlighting the chemical activation strategies of carbonaceous materials into activated carbon, especially for dyes removal in wastewater treatment.

The closing chapter demonstrates the need for comprehensive analysis across spatial and temporal scales, using multiple landscape indices to provide insights on the pattern and dynamics of the seagrass landscapes.

Volume 70 - HB 9781536169713 £229.99 March 2020 Nova Science Publishers 271 pages

Volume 71 - HB 9781536174885 £229.99 April 2020 Nova Science Publishers 259 pages

Volume 72 - HB 9781536180008 £229.99 May 2020 Nova Science Publishers 215 pages

Volume 73 - HB 9781536181678 £229.99 July 2020 Nova Science Publishers 242 pages

Volume 74 - HB 9781536184426 £229.99 September 2020 Nova Science Publishers 196

Volume 75 - HB 9781536187755 £229.99 November 2020 Nova Science Publishers 183 pages

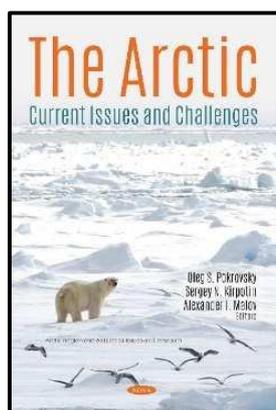
Volume 76 - HB 9781536186857 £229.99 October 2020 Nova Science Publishers 218 pages

Volume 77 - HB 9781536187083 £229.99 October 2020 Nova Science Publishers 250 pages

Volume 78 - HB 9781536187748 £229.99 November 2020 Nova Science Publishers 217 pages

Volume 79 - HB 9781536188790 £229.99 November 2020 Nova Science Publishers 203 pages

Arctic Region & Antarctica Issues & Research



The Arctic **Current Issues and Challenges** Edited by Oleg S. Pokrovsky

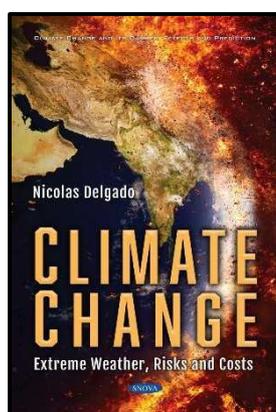
The importance of the Arctic in many fields of human activity strongly increased over the past decades. The academic scientific research demonstrates a 3-fold increase in the number of journal articles dealing with “Arctic”: from 1,400 in 2000 to 4,200 in 2018. This increase is not fortuitous but certainly stems from double importance of Arctic regions for humanity. The first importance is the role that the Arctic plays in the on-going environmental changes, mostly linked to climate warming and environmental pollution. Here, the first key issues are the Arctic Ocean, ice melt, permafrost thaw, greenhouse gases emission, and organic carbon mobilization from soils to rivers.

From the other hand, highly fragile Arctic ecosystems and biota are strongly affected by environmental pollution, be it organic compounds or toxic metals and radionuclides. The rising concern of humanity to the key role of the Arctic in climate regulation on the planetary scale and the extreme fragility of its ecosystem, biota and native population to on-going environmental change can certainly explain an explosive interest of scientific researchers to the Arctic in connection with ‘climate change’. The second big issue of the Arctic is its eminent role in problems of natural resources. The Arctic shelf contains vast amount of hydrocarbons (gas and oil), whereas the terrestrial polar regions, now liberating from ice, may turn out to be highly important sites of future ore industry.

The importance of possibly ice-free Arctic Ocean as future maritime shipping routes will further enhance the accessibility of natural resources in this region. Taken together, this can be the main driving factors of almost exponential increase in the interest to natural resources in the Arctic over past few years. The present book addresses a wide variety of environmental, social and economic issues of the Arctic, in response to rising interest to this region in academic science, sociology and business. The 14 chapters represent state-of-the art reviews written by the experts on problems of native communities, climate change, political issues, implementation of large-scale projects, natural resources and conservation, environmental monitoring and assessment of pollution issues.

HB 9781536173062 £211.99 April 2020 Nova Science Publishers 425 pages

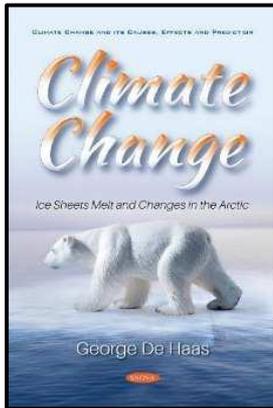
Climate Change & Its Causes, Effects & Prediction



Climate Change **Extreme Weather, Risks and Costs** Edited by Nicolas Delgado

Chapter 1 examines the state of the science related to extreme weather events. It will provide an opportunity to examine the role of climate change and other weather and climate factors in causing and exacerbating extreme weather events, to discuss economic and other societal impacts of extreme weather, to explore the state of forecasting and prediction of extreme weather with a focus on how to communicate uncertainty, and to identify gaps in the science. Chapter 2 reports on the kinds of climate risk information standards and tools that communities need to reduce the risks and costs of climate change, including more extreme floods and wildfires.

HB 9781536191134 £211.99 March 2021 Nova Science Publishers 345 pages



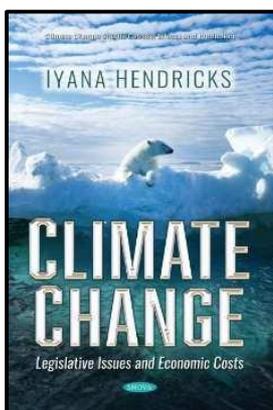
Climate Change Ice Sheets Melt and Changes in the Arctic

Edited by George De Haas

Chapter 1 focuses on the science to understand the physical processes and projections of mass loss of the major ice sheets in Greenland and Antarctica, as well as of mountain and other land-based glaciers. The chapter reports on current projections of glacier mass loss due to anthropogenic climate change, and in turn how that will affect sea level.

The diminishment of Arctic sea ice has led to increased human activities in the Arctic, and has heightened interest in, and concerns about, the region's future as reported in chapter 2. Issues such as Arctic territorial disputes; commercial shipping through the Arctic; Arctic oil, gas, and mineral exploration; endangered Arctic species; and increased military operations in the Arctic could cause the region in coming years to become an arena of international cooperation, tension, or competition.

HB 9781536178418 £211.99 April 2020 Nova Science Publishers 349 pages



Climate Change Legislative Issues and Economic Costs

Edited by Iyana Hendricks

Chapter 1 will cover a brief history of U.S. climate change regulation; review the different types of regulation and legal actions that have been pursued in the national debate over GHGs; examine selected legal issues and next steps in related litigation; and address what these legal and regulatory developments mean for Congress.

The United States committed to providing financial assistance to developing countries for climate-change-related activities through the United Nations Framework Convention on Climate Change (UNFCCC) as reported in chapter 2.

The costs of recent weather disasters have illustrated the need for planning for climate change risks and investing in resilience.

Resilience is the ability to prepare and plan for, absorb, recover from, and more successfully adapt to adverse events, according to the National Academies of Science, Engineering, and Medicine. Chapter 3 reports that the federal government has not made measurable progress since 2017 to reduce fiscal exposure to climate change.

Chapter 4 focuses on the policy considerations and potential impacts of using a carbon tax or GHG emissions fee to control GHG emissions.

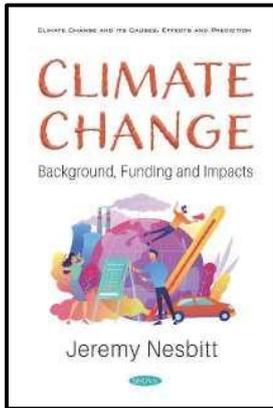
Administered by EPA, Superfund is the principal federal program for addressing sites containing hazardous substances. Chapter 5 reviews issues related to the impact of climate change on nonfederal NPL sites.

A recent decision in the United States District Court for the District of Columbia Circuit has paused oil and gas exploration and production activity in certain leased areas of Wyoming and hinted at heightened requirements that the Bureau of Land Management (BLM) must satisfy to comply with the National Environmental Policy Act (NEPA) before issuing oil and gas leases. Specifically, the decision will require BLM to conduct a more thorough review of the potential climate change impacts of certain oil and gas leases before allowing the lessees to conduct drilling operations as discussed in chapter 6.

Chapter 7 summarizes the content of the U.N. Framework Convention on Climate Change (UNFCCC) and its two subsidiary international treaties: the 1997 Kyoto Protocol (KP) and the 2015 Paris Agreement (PA).

The Green Climate Fund (GCF) was officially opened for capitalization at the U.N. Climate Summit in September 2014. Chapter 8 discusses how the funds were used.

HB 9781536177572 £178.99 April 2020 Nova Science Publishers 271 pages



Climate Change Background, Funding and Impacts

Edited by Jeremy Nesbitt

Regarding climate changes, a key question has been the degree to which humans and natural factors have influenced observed global climate change. Chapter 1 traces the evolution of scientific understanding and confidence regarding the drivers of recent global climate change. Chapter 2 reviews how U.S. agencies address climate change as a potential driver of global migration. Chapter 3 examines reported federal funding from 2010 to 2017 and the extent to which reports on such funding are clearly linked to the federal fiscal exposure to climate change; the extent to which selected agencies reported climate change funding that supports programs where addressing climate change is the primary purpose; and the extent to which the primary purpose programs are fragmented, overlapping, or duplicative.

The costs of recent weather disasters have illustrated the need for planning for climate change risks and investing in resilience as reported in chapter 4.

For more than a decade, federal agencies have grappled with how to address climate change effects when implementing the Endangered Species Act of 1973 (ESA). As set forth by Congress, one of the main purposes of the ESA is to “provide a means whereby the ecosystems upon which endangered species and threatened species depend may be conserved.” Chapter 5 analyzes the courts’ role in shaping how the Services have factored climate change effects into ESA decisions and recent 2019 regulatory developments that aim to clarify how the Services consider and address climate change in their ESA decisions.

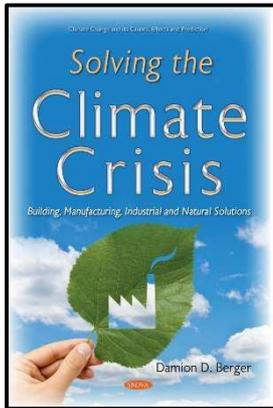
Many governments hold that environmental degradation and climate change pose international and trans-boundary risks to human populations, economies, and ecosystems. International financial assistance, or foreign aid, has been a principal method for governments to support actions on global environmental problems in lower-income countries. As discussed in chapter 6 and 7, this assistance may include grants, loans, loan guarantees, export credits, insurance products, and private sector investment.

On June 1, 2017, President Trump announced his intent to withdraw the United States from the Paris Agreement (PA), an international accord to address climate change over the coming century. Some observers argue that the Administration’s decision to withdraw from the PA will (1) reduce the U.S. standing in the world by making the United States an international outlier on climate change, (2) strengthen perceptions that the United States is withdrawing from its traditional position of world leadership and becoming more inward-focused or even isolationist, (3) create an opportunity for China to assume a position of world leadership on climate change and perhaps other issues, and (4) make the United States appear less reliable as a negotiating partner, which could make it harder for the United States in the future to secure foreign cooperation for addressing other issues of mutual interest or to call on other countries to abide by their commitments in other international agreements as reported in chapter 8.

Surface transportation is a major source of carbon dioxide (CO₂) in the atmosphere, the main human-related greenhouse gas (GHG) contributing to climate change. At the same time, the effects of climate change, such as extreme heat, sea level rise, and stronger storms, pose a threat to transportation infrastructure. Chapter 9 seeks to address these two aspects of climate change with mitigation provisions that aim to reduce GHG emissions from surface transportation and adaptation provisions that aim to make the surface transportation system more resilient to a changing climate.

For policymakers considering actions to reduce GHG emissions, various policy instruments are available. Over the last 15 years, many legislative proposals have involved market-based approaches, such as a GHG emissions cap-and-trade system or a carbon tax. These particular approaches may be considered in the 116th Congress and are discussed in chapter 10.

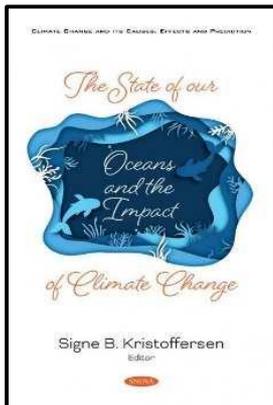
HB 9781536172164 £211.99 February 2020 Nova Science Publishers 370 pages



Solving the Climate Crisis
Building, Manufacturing, Industrial and Natural Solutions
 Edited by Damion D. Berger

American leadership and ingenuity are central to solving the climate crisis. With the devastating health and economic consequences of climate change growing at home and abroad, the United States must act urgently, guided by science, and in concert with the international community to provide a livable climate for today's youth and future generations. This book examines the changes that need to be made to help mitigate climate change.

HB 9781536189308 £284.99 December 2020 Nova Science Publishers 508 pages

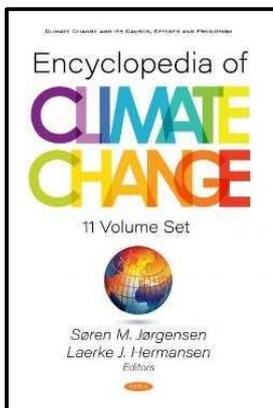


The State of Our Oceans and the Impact of Climate Change
 Edited by Signe B. Kristoffersen

Chapter 1 is focused on oceans and the coastal communities that depend on them. 40 percent of the United States is living in coastal shoreline counties. These communities depend on ocean-related industries like fisheries, tourism, and shipping. Businesses and jobs directly dependent on oceans and Great Lakes resources contribute \$352 billion to our GDP. They employ over 3 million Americans. But even if you live far from the coast, the health of oceans should matter to you. It affects the air we breathe, it affects the food we eat, and the livability of our climate.

The purpose of chapter 2 is to explore the impacts of anthropogenic carbon dioxide emissions on our oceans and coasts. This chapter discusses warming, acidification, deoxygenation, and sea level rise with special attention to findings in recently published significant climate reports and the impacts of climate change to a coastal industry.

HB 9781536179149 £178.99 May 2020 Nova Science Publishers 298 pages



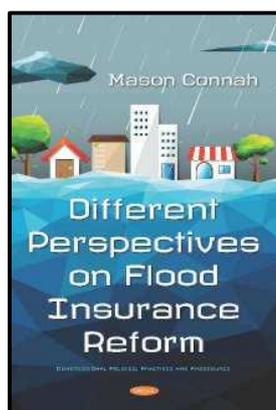
Encyclopedia of Climate Change (11 Volume Set)
 Edited by Søren M. Jørgensen, Lærke J. Hermansen

This 11 volume set is a compilation of important research on climate change. Some of the topics addressed include:

- energy sustainability and natural resources
- environmental monitoring and evaluation methods
- sustainable livestock production and food security
- organic farming
- the causes and effects of glacier retreat
- endangered species
- The Paris Agreement and the potential implications of US withdrawal

HB 9781536174939 £1,605.99 July 2020 Nova Science Publishers 3093 pages

Congressional Policies, Practices & Procedures

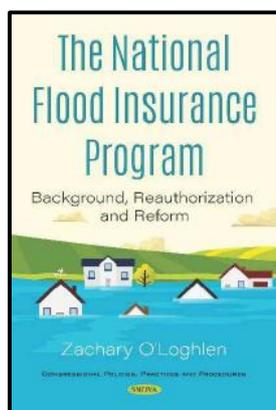


Different Perspectives on Flood Insurance Reform

Edited by Mason Connah

This book is a compilation of three different meetings of the Subcommittee on Housing and Insurance. The meetings were held to discuss Flood Insurance Reform and the timely reauthorization of the National Flood Insurance Program (NFIP) and its key authorities. At each of the meetings a different perspective was discussed.

HB 9781536169652 £211.99 January 2020 Nova Science Publishers 415 pages



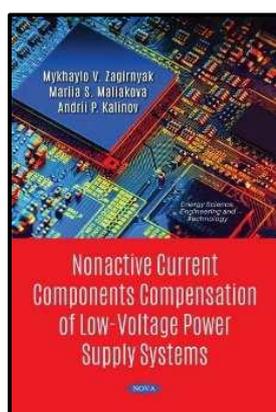
The National Flood Insurance Program Background, Reauthorization and Reform

Edited by Zachary O'Loghlen

The National Flood Insurance Program (NFIP) was established by the National Flood Insurance Act of 1968 and was most recently reauthorized to May 31, 2019, through a series of short-term reauthorizations. The general purpose of the NFIP is both to offer primary flood insurance to properties with significant flood risk, and to reduce flood risk through the adoption of floodplain management standards. Communities volunteer to participate in the NFIP in order to have access to federal flood insurance, and in return are required to adopt minimum standards. This book discusses important issues relating to the *National Flood Insurance Program*.

HB 9781536169638 £178.99 February 2020 Nova Science Publishers 320 pages

Energy Science, Engineering & Technology



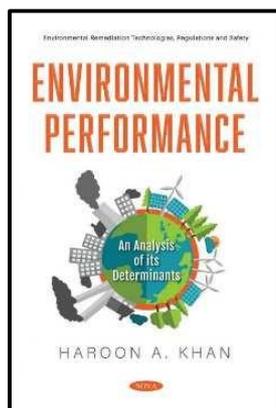
Nonactive Current Components Compensation of Low-Voltage Power Supply Systems

Mykhaylo V. Zagirnyak

The monograph has solved an actual scientific problem, improving the efficiency of electricity networks by developing methods of compensation current non-active components under harmonic distortions and unbalance of mains supply voltage. The research of the compensation system working processes in time- and frequency-domain allows to reach the positive effect for the developed method. The necessity of the analytical methods for analysis of nonlinear elements of electrical systems in the frequency-domain development have been grounded. The expediency and efficiency of the usage of small parameter method, which is realized in frequency-domain using instantaneous admittance components, have been grounded. It is shown that application of a small parameter method with its realization in frequency domain enables significant simplification of the process of the analysis of electric circuits with semiconductor converters in an analytical form and facilitation of calculation automation. Based on this, the algorithm for calculation of the passive filter parameters have been proposed. This allows to reach the desired voltage total harmonic distortion coefficient. The analysis of energy consumption and conversion in electrical systems with semiconductor converters based on the instantaneous power components analysis allowed to make important conclusions.

PB 9781536177817 £178.99 May 2020 Nova Science Publishers 288 pages

Environmental Remediation Technologies, Regulations & Safety

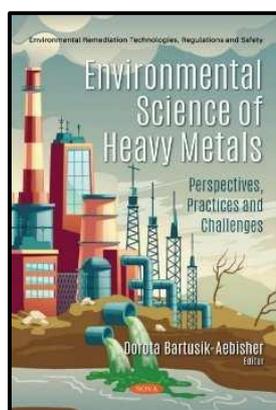


Environmental Performance An Analysis of its Determinants

Haroon A. Khan

Environment has become a central issue in the present day world. Environmental sustainability has been advocated as a major goal to deal with growing problems of pollution that threaten the very existence of the human beings. The dismal picture of global warming brings to the attention the necessity of environmental performance so that the governments in the world can take positive steps toward sustainability. The book uses the data from the Yale Center for Environment and Policy. It uses Environmental Performance Index (EPI) prepared by the Yale Center. The book explores the relationship between environmental performance and democracy, ideology, leadership, good governance, participation in international agreements, economic factors, and globalization.

PB 9781536185256 £87.99 October 2020 Nova Science Publishers 146 pages



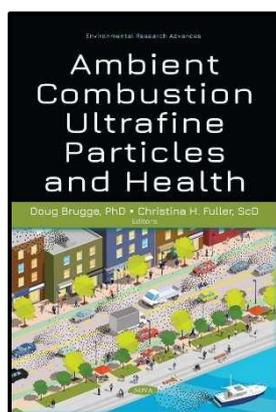
Environmental Science of Heavy Metals

Dorota Bartusik-Aebisher

This book provides a current review of the problem of heavy metal removal. Microorganisms and microbial activity in environments of water and soil are presented in Chapter 1. Chapter 2 covers current knowledge about photoactive materials based on porphyrins. This book reports the manner in which plants interact with heavy metals dependent mainly on the type of contamination, species of plant as well as conditions. The book presents biological strategies for the elimination of heavy metals from polluted habitats—phytoextraction, phytostabilization, phytodegradation, phytostimulation, phytovolatilization and phytofiltration. Also included are analytical methods to determine heavy metals in water such as atomic absorption spectrometry, electrochemical methods, colorimetric and chromatographic techniques.

PB 9781536178319 £87.99 May 2020 Nova Science Publishers 204 pages

Environmental Research Advances

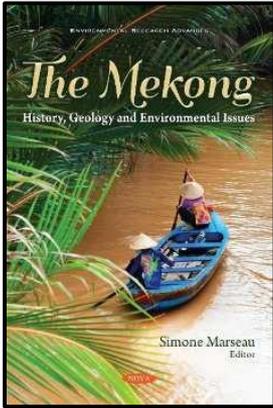


Ambient Combustion Ultrafine Particles and Health

Edited by Doug Brugge

This edited and peer reviewed volume contains a collection of articles from many disciplines that address the emerging issue of ambient ultrafine particles derived from combustion sources and their health effects. The authors are published experts with respect to ultrafine particles. They write about diverse aspects of the problem including epidemiology, environmental engineering, toxicology, policy, architecture and medicine. Each chapter provides a thoroughly referenced review of the respective subject matter. Written for researchers and scientists, this work is an excellent introduction for those early in their research into ultrafine particles as well as those that are well-versed and seeking to expand into new approaches to ultrafine particles. Chapters may be read singly or in combination with other chapters, depending on the reader's interest. As a whole, the book is a broad reference source about combustion ultrafine particles and health.

HB 9781536188318 £247.99 February 2021 Nova Science Publishers 444 pages



The Mekong History, Geology and Environmental Issues

Edited by Simone Marseau

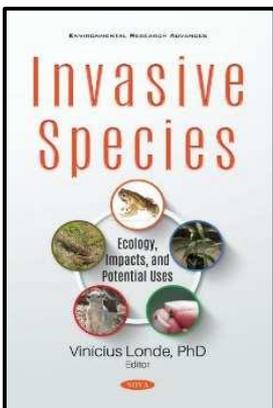
The Mekong: History, Geology and Environmental Issues first emphasizes how indigenous ecological views are affected by the rise of materialism, further investigating the discursive responses of the masses together with their fading ecology.

The authors point out the potential threats of using Mekong surface water of uncontrolled quality. Efficient economical water treatment technologies are identified for the provision of water of appropriate quality to rural households.

Through the analysis of shrimp farmers' production process, one study argues that due to an unstable production environment, farmers in the Mekong Delta have always displayed risk mitigation as a rational response to the production setting.

The concluding study aims to estimate the environmental efficiency of transformed shrimp farming through interviews with 90 farmers who recently shifted from sugarcane cultivation to mono-shrimp culture in Cu Lao Dung district, Soc Trang province.

PB 9781536181524 £75.99 August 2020 Nova Science Publishers 137 pages

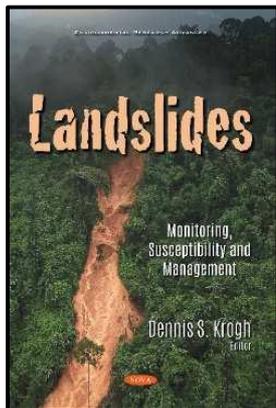


Invasive Species Ecology, Impacts, and Potential Uses

Edited by Vinicius Londe

Invasive plant species are becoming common and dominating virtually all environments worldwide. Their impacts on native biota can be variable, but they normally negatively affect the resident species. The interest in invasive species has grown in recent decades and many studies are being conducted on this theme. In this book, we quantitatively demonstrate how the interest in invasive plants has increased since 2000, and which topics have received more attention over time. Moreover, we report a variety of information on plant and animal invasive species inhabiting different ecosystems. A temporal and spatial analysis of the New Zealand Mud Snail is presented, as well as the expansion of the Brazilian rattlesnake distribution. Many studies were carried out on the (magnificent) Fernando de Noronha archipelago in the last decade, and the results are partially described in this volume. Native plants and animals are being threatened by exotic and invasive species in the archipelago. Protected areas nearby urban centers are especially affected by invasive species, and this statement is confirmed herein through a study carried out in Atlantic Forest remnants. Another interesting issue is how exotic and invasive tree species can affect the diversity and structure of epiphyte species. Herein the reader will learn how an invasive species sets up the epiphyte community in a century old oil palm stand. Although invasive species cause serious problems in the new environment, some of them can also be used to mitigate air, water, and soil pollution. Thus, in addition to presenting the ecological aspects and negative effects, this volume also brings some potential uses for invasive species.

HB 9781536178906 £211.99 July 2020 Nova Science Publishers 335 pages



Landslides

Monitoring, Susceptibility and Management

Edited by Dennis S. Krogh

Landslides: Monitoring, Susceptibility and Management opens with a presentation of the application of geographic information system -based statistical modeling in the delineation of landslide susceptible zones for Rani Khola River basin of Sikkim Himalayas, India, by combining various landslide conditioning factors, namely: geological, topographical and hydrological parameters.

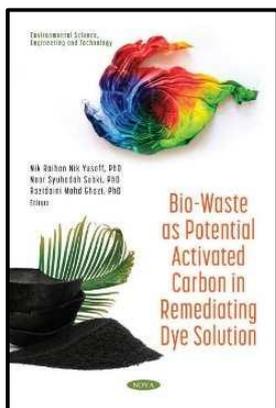
Inaccessible areas prone to landsliding are delineated, as increasing awareness of the human, economic, and environment effects of these natural disasters is necessary to promote the safety of human life.

The authors develop a broad-based landslide susceptibility assessment considering causal factors and different triggering conditions for hillslopes bordering the Monterrey Metropolitan Area. This approach has been computed on a cell-by-cell basis in a geographic information system.

The concluding study attempts to present a distribution map of major rainfall-induced landslides in March to April 2019 in Iran, as well as review the local geological characteristics of major case studies.

PB 9781536176322 £87.99 March 2020 Nova Science Publishers 193 pages

Environmental Science, Engineering & Technology

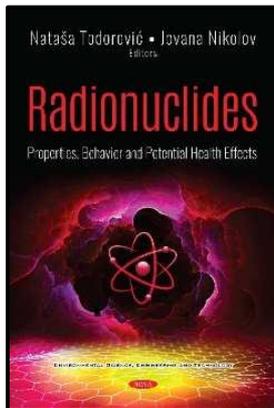


Bio-Waste as Potential Activated Carbon in Remediating Dye Solution

Edited by Nik Raihan Nik Yusoff

This book introduces the use of bio-waste as a raw material for the preparation of activated carbon (AC) for dyes removal. Activated carbon was derived from assorted materials that have potential to function as a good adsorbent, especially for dyes removal in wastewater treatment. This book was written as a case study to help readers understand the function of AC in each system and approach. This book includes applications of AC derived from corncob; palm tree empty fruit bunch; seashell; eggshell; spent coffee ground; rubber wood saw dust; kenaf fiber and coconut frond in dyes removal and wastewater treatment. The efficiency of activated carbon prepared from various bio-wastes is evaluated by calculating the removal rate of dyes in wastewater. This unique book features eight chapters pertinent to the current situation, as loads of dye effluent are being discharged into the environment. The characterization of the produced AC is analysed using various instrumentations such as scanning electron microscopy (SEM), Fourier transform infrared spectroscopy (FTIRS) and X-ray diffraction (XRD). The book will attract Eastern and Western researchers and scholars at all levels of degree qualification, industrial practitioners and entrepreneurs in the field of bio-waste.

PB 9781536189360 £87.99 December 2020 Nova Science Publishers 138 pages



Radionuclides Properties, Behavior and Potential Health Effects

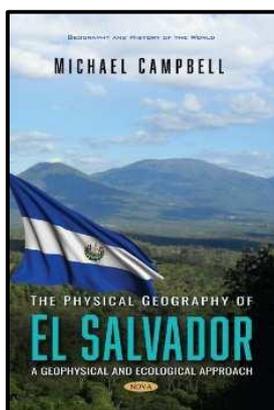
Jovana Nikolov

Our world has been radioactive ever since! Humans are primarily exposed to natural radiation from the Sun, cosmic rays, and naturally-occurring radionuclides found in the Earth's crust. Besides the natural radioactivity, industries, which produce radioactive wastes during their normal operations or during their dismantling and decommissioning processes, do contaminate the environment through the release of radionuclides into the air, soil and water. Among them, nuclear power plants, NORM (Naturally Occurring Radioactive Materials) related industries, hospitals, radionuclide production facilities, uranium mining and other nuclear facilities, along with radioactive/nuclear disposal sites are a potential source of environmental contamination by emission/discharging of natural/artificial radionuclides through water, air and soil to the other environmental compartments like plants, animals and foods. In a word, everything that makes our existence!

The book "*Radionuclides: Properties, Behavior and Potential Health Effects*" is a comprehensive overview of some information on radiation in the environment and human exposure to radioactivity. This book highlights the sources, properties, behaviors, and biological and ecological effects of radioactivity from both natural and anthropogenic sources. The emphasis is on the environmental aspects of radionuclides and their eventual effects on biota, particularly humans.

HB 9781536173796 £211.99 April 2020 Nova Science Publishers 355 pages

Geography & History of the World

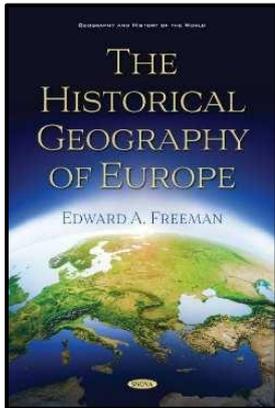


The Physical Geography of El Salvador A Geophysical and Ecological Approach

Michael Campbell

El Salvador is possibly among the most environmentally degraded nations in Latin Americas, or even the Americas. Yet, it is also among the most environmentally dynamic nations in the American region. Situated at the juxtaposition of several spatial phenomena, such as the Mesoamerican Biodiversity Hotspot, the Pacific Ring of Fire and associated volcanoes and earthquakes, the meeting point of hurricanes and tropical storms from both the Pacific and the Atlantic, and numerous environmentally disastrous wars, this nation has endured much change. Recent developments have demonstrated the intelligence of the people and the current government in dealing with these issues, through acknowledgement, empowerment, study and management. The relevant issues have rarely been included in one book. This book takes a critical look at the environmental system of El Salvador, from the integrated perspective of physical geography. Physical geography emphasizes three main clusters: geomorphology (allied to geology and hydrology), climatology (linked to meteorology) and biogeography (manifested as the spatial assessment of ecology). The book argues that this approach is sufficient for the assessment of the main environment issue of El Salvador. The book therefore begins with an introduction to the main complexes of physical geography and relates these to the Central American Region. El Salvador is then examined, from this viewpoint. The book concludes that the situation in El Salvador may improve, through species reintroductions, reforestation, expanded environmental protection, more critical urban development, and better management of natural hazards.

HB 9781536183139 £211.99 August 2020 Nova Science Publishers 401 pages



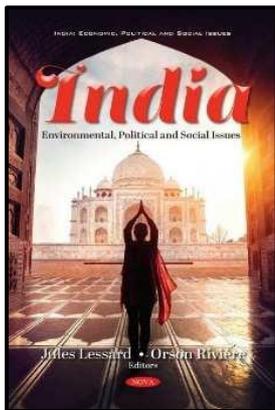
The Historical Geography of Europe

Edward A. Freeman

The Historical Geography of Europe traces the extent of territory which the different states and nations of Europe and the neighbouring lands have held at different times in the world's history, to mark the different boundaries which the same country has had, and the different meanings in which the same name has been used. It is of great importance carefully to make these distinctions, because great mistakes as to the facts of history are often caused through men thinking and speaking as if the names of different countries, say for instance England, France, Burgundy, Austria, have always meant exactly the same extent of territory.

HB 9781536178128 £284.99 May 2020 Nova Science Publishers 595 pages

India: Economic, Political & Social Issues



India

Environmental, Political and Social Issues

Edited by Jules Lessard, Orson Riviere

India: Environmental, Political and Social Issues first highlights the environmental conditions of Uttarakhand such as relief, structure, drainage, climatic conditions and forest types, as well as the influence of these aspects on aspects of demographic structure such as population distribution, growth, sex ratio and literacy.

The authors go to present findings indicate that the Tropical Lowland Rain Forests in Sri Lanka are capable of recovery, in terms of biodiversity and stature, if sufficient recess is provided following land use practices such as selective logging and chena cultivation in spatial and temporal contexts.

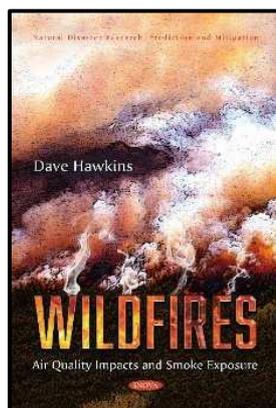
As a desert state, the climate of Rajasthan is uniquely characterized by low rainfall, dryness and extreme temperature. Fauna of this region are specifically adapted to this hostile environment. In this compilation, threats to fauna of Rajasthan are assessed.

Later, after presenting a short introduction to the historical and cultural background, the authors narrate Karunanidhi's most decisive film, *Parasakthi* (Supreme Power, 1952). It challenges certain cultural stereotypes such as the sexual exploitation of women, social discrimination, corruption, religious superstition and so on.

The closing study examines the effects of socio-economic determinants on child malnutrition in Uttar Pradesh, the most populous and malnourished state of India. Using data from NFHS-4, this study highlights district-wide variations in the nutritional status of children less than five years old in the state.

HB 9781536184136 £146.99 September 2020 Nova Science Publishers 198 pages

Natural Disaster Research, Prediction & Mitigation



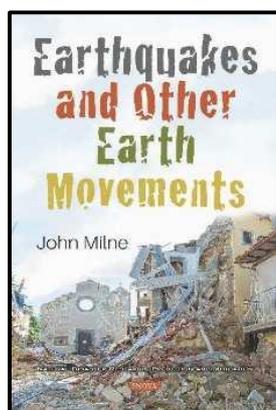
Wildfires

Air Quality Impacts and Smoke Exposure

Edited by Dave Hawkins

Chapter 1 develops a better understanding of the health impacts of wildfires and what should be done to minimize those impacts. It looks closely at the mitigation and management strategies for reducing air quality risks from wildfire smoke. In large part, these strategies involve efforts to reduce the intensity and frequency of wildfires that threaten communities. Chapters 2-7 contain U.S. Environmental Protection Agency fact sheets on how to reduce your risks to wildfire smoke and ash.

HB 9781536171822 £211.99 March 2020 Nova Science Publishers 390 pages



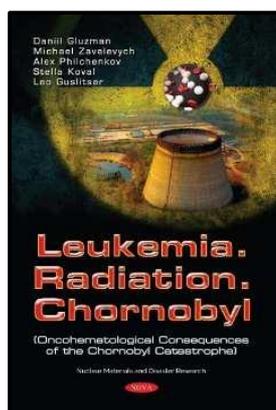
Earthquakes and Other Earth Movements

John Milne

In *Earthquakes and Other Earth Movements* the author gives a systematic account of various Earth Movements. These comprise Earthquakes, or the sudden violent movements of the ground; Earth Tremors, or minute movements which escape our attention by the smallness of their amplitude; Earth Pulsations, or movements which are overlooked on account of the length of their period; and lastly, Earth Oscillations, or movements of long period and large amplitude which attract so much attention from their geological importance.

HB 9781536169676 £211.99 January 2020 Nova Science Publishers 380 pages

Nuclear Materials & Disaster Research Series



Leukemia. Radiation. Chernobyl

Oncohematological Consequences of the Chernobyl Catastrophe

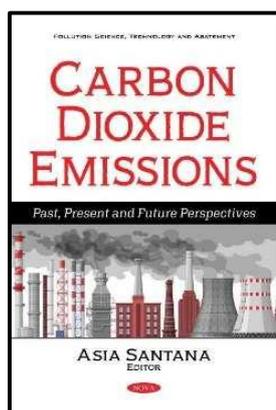
Daniil Gluzman

The Chernobyl disaster of 1986 is among the largest technogenic catastrophes in the history of humankind. The vast territories of Ukraine, Republic of Belarus, Russian Federation as well as bordering European states have been exposed to the contamination by the long-lived radionuclides released from the destroyed nuclear power station. The medical consequences of the Chernobyl catastrophe are being studied for more than three decades. In fact, the increased risk of certain forms of leukemia is among the major stochastic effects of radiation exposure. Nevertheless, the final unambiguous conclusions as to the role of low-dose radiation exposure in the induction of leukemia are still pending.

The book presents the results of studies on the diagnosis of various forms of hematological malignancies in Ukrainian patients provided for more than thirty years in the Oncohematology Department of RE Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology, the National Academy of Sciences of Ukraine. Among the groups of leukemia patients were the Chernobyl clean-up workers as well as the patients from Ukrainian population (adults and children) inhabiting the territories with different levels of radionuclide contamination. For the first time, some trends in the patterns of hematological malignancies in several sample groups under study have been identified throughout the post-Chernobyl period.

HB 9781536186994 £146.99 October 2020 Nova Science Publishers 147 pages

Pollution Science, Technology & Abatement



Carbon Dioxide Emissions Past, Present and Future Perspectives

Edited by Asia Santana

CO₂ capture from gaseous effluents is one of the great challenges faced by chemical and environmental engineering, as the increase of CO₂ levels in the Earth's atmosphere might be responsible for dramatic climate changes. This compilation begins by presenting the recent developments in studies focusing on the optimization of CO₂ capture using amine solutions.

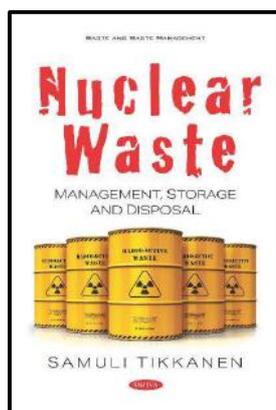
The authors assess the effects of land use change on soil carbon flux in Brazil, in addition to contributing to the body of knowledge about carbon stock balance in tropical and subtropical domains.

The authors also assess whether it will be possible to fulfill the Brazilian Paris agreement goals if the Amazon deforestation increase continues.

The potential inflation effects of a global carbon price on consumer prices, investment prices, export prices, and import prices are explored, estimating the effects under various scenarios.

PB 9781536177633 £75.99 May 2020 Nova Science Publishers 127 pages

Waste & Waste Management

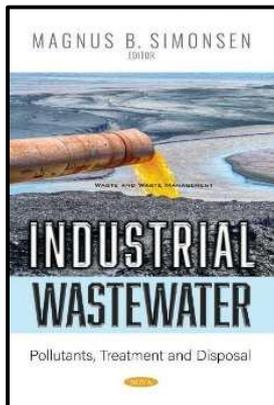


Nuclear Waste Management, Storage and Disposal

Edited by Samuli Tikkanen

Congressional interest in nuclear waste is generally focused on managing commercial spent nuclear fuel (SNF), the waste produced from commercial nuclear power plants, and other high-level nuclear wastes (HLW), largely from Cold War-era nuclear weapons materials production. Chapter 1 examines the management of spent nuclear fuel, concerns related to the storage of nuclear waste, and the need for long-term solutions. Chapter 2 discusses a permanent geologic repository for disposal of commercial spent nuclear fuel and other high-level nuclear wastes. Chapter 3 is a draft of a bill to find a solution for the safe disposal of nuclear waste. The United States currently has no permanent disposal facility for spent nuclear fuel or other highly radioactive waste. The draft makes critical reforms to our Nation's nuclear waste management policy. Chapter 4 reports on The Nuclear Waste Policy Act of 1982 (NWPA) which calls for disposal of spent nuclear fuel in a deep geologic repository. Chapter 5 examines the extent to which the Office of Environmental Management's (EM's) management of the Integrated Waste Treatment Unit follows selected project management best practices; challenges EM faces in disposing of the sodium-bearing waste; and challenges EM faces in treating and disposing of the calcine waste.

HB 9781536170429 £211.99 February 2020 Nova Science Publishers 360 pages



Industrial Wastewater Pollutants, Treatment and Disposal

Edited by Magnus B. Simonsen

Industrial Wastewater: Pollutants, Treatment and Disposal first explores the decolourization and biodegradation of three primary dyes employed in the textile industry, namely methyl red, methyl orange and methylene blue.

An overview of the developments in membrane bioreactor technology for various types of wastewater treatment is provided, addressing the fundamentals, applications, and strategies from industrial and domestic interests.

The authors focus on advances in the development of robust processes for alcoholic fermentation from sugar-sweetened beverage wastewaters. The impact of the preservatives, the initial sugars content and the initial inoculum size of both sugar consumption and ethanol yield are presented.

Following this, the applications of nanofiltration in metal and acid recovery are explored, focusing on conventional processes like solvent extraction and ion exchange.

The authors go on to elucidate the recent and significant advances in the field of nanomembranes and nanotechnology, addressing their applications in water/wastewater treatment and desalination.

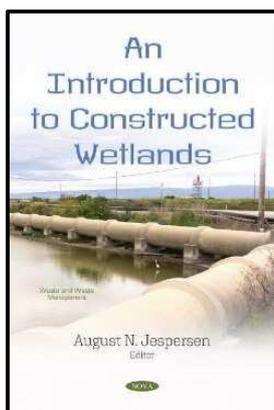
The status of global scientific research in the field of arsenic groundwater remediation is reviewed in conjunction with present environmental research.

The pollutants contained in industrial wastewater are examined in an effort to research treatment and disposal methods for remediation using agro-food wastes and by-products.

This compilation also applies experimental design methodology in the optimization of photocatalytic degradation of dairy industry wastewater.

The closing research centers on the degradation of phenol from wastewater using electrocoagulation as pretreatment and using advanced oxidation process. Various parameters such as the initial concentration of phenol and pH of the solution are studied.

HB 9781536182521 £211.99 August 2020 Nova Science Publishers 342 pages



An Introduction to Constructed Wetlands

Edited by August N. Jespersen

An Introduction to Constructed Wetlands highlights the part of the constructed wetland system which plays a pivotal role in the sustainable treatment of wastewater, with a major focus on possible mechanisms for the removal of polychlorinated biphenyl.

The authors provide a state-of-the-art and up-to-date review of the literature on constructed wetlands, emphasising their performance in treating oily effluents.

In addition, the functions of constructed wetlands as nature-based solutions are reviewed, with emphasis on their vegetation and associated microorganisms.

In closing, the major findings related to the identification of the microbial community composition in the constructed wetlands bed media by the application of pyrosequencing of 16S rRNA genes.

PB 9781536180107 £87.99 June 2020 Nova Science Publishers 183 pages



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