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Climate change is the most significant moral and environmental issue of our time. This project seeks to help deepen explicit ethical reflection around the world on national responses to climate change by developing a publicly available record on national compliance with ethical obligations for climate change similar to the reports that are now available on national compliance with human rights obligations.

Competition for Water Resources: Experiences and

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Management Approaches in the U.S. and Europe addresses the escalation of global issues regarding water scarcity and the necessary, cost-effective strategies that must be put in place in order to deal with escalating water crisis. The book evaluates use and competition for water resources in the U.S. and Europe, emphasizing the problems and challenges of dealing with tradeoffs in water. In addition, the book discusses water management strategies that can be used to optimize water use and allocation, mitigate water scarcity, and adapt to water scarcity. Supplementing the numerous case studies, the book includes lessons learned from applying specific strategies and

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approaches. This comprehensive overview and comparison of management practices across two continents is an invaluable resource for researchers, policymakers, and educators in water. Provides a national and regional perspective through the use of country specific case study examples Includes a comparative analysis between the U.S. and Europe, illustrating experiences in water management from two sides of the Atlantic Covers interdisciplinary topics related to water, such as agriculture and energy In spring 2011 the National Academies of Sciences, Engineering, and Medicine produced a report outlining the next decade in planetary sciences. That report, titled

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Vision and Voyages for Planetary Science in the Decade 2013-2022, and popularly referred to as the "decadal survey," has provided high-level prioritization and guidance for NASA's Planetary Science Division. Other considerations, such as budget realities, congressional language in authorization and appropriations bills, administration requirements, and cross-division and cross-directorate requirements (notably in retiring risk or providing needed information for the human program) are also necessary inputs to how NASA develops its planetary science program. In 2016 NASA asked the National Academies to undertake a study assessing NASA's progress at meeting the objectives of the

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decadal survey. After the study was underway, Congress passed the National Aeronautics and Space Administration Transition Authorization Act of 2017 which called for NASA to engage the National Academies in a review of NASA's Mars Exploration Program. NASA and the Academies agreed to incorporate that review into the midterm study. That study has produced this report, which serves as a midterm assessment and provides guidance on achieving the goals in the remaining years covered by the decadal survey as well as preparing for the next decadal survey, currently scheduled to begin in 2020.

This edited volume emphasizes risk and crisis

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communication principles and practices within the up-to-the minute context of new technologies, a new focus on resiliency, and global environmental change. It includes contributions from experts from around the globe whose research, advocacy, teaching, work, or service in the natural or social sciences deals with risk communication and/or management surrounding natural and technological disasters, with a particular focus on climate change-related phenomena. Resilience and good communication are intimately linked and with climate change precipitating more numerous and onerous weather-related catastrophes, a conversation on resilience is timely and necessary. The goal is robust

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communities that are able to withstand the shock of disaster. Communicating well under ordinary circumstances is challenging; communicating during a crisis is extraordinarily difficult. This book is dedicated to all those who have directly or indirectly suffered the effects of climate change and extreme events with the hope that the advance of knowledge, implementation of sound science and appropriate policies and use of effective communication will help in reducing their vulnerability while also improving resilience in the face of often devastating natural and technological disasters.

Unified Field Mechanics: Natural Science Beyond The Veil Of Spacetime - Proceedings Of The Ix Symposium

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Honoring Noted French Mathematical Physicist Jean-
pierre Vigier

Skills for Success

Economic value of ecosystem services from the deep
seas and the areas beyond national jurisdiction

Computer Aided Verification

Solving Major Ecological Problems and Confronting
Climate Change

Peak Energy

Does the Earth contain enough oil to provide energy for the human
race indefinitely? If not, how long will the oil last? What about
renewable energy technologies like wind and solar? Will they be able

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to supply an indefinite supply of energy for the human race? If not, how long will it last? And what role does overpopulation play in our world's energy supply? Even with multiple forms of energy available, how long will it last as long as more and more humans, and therefore more industries and energy consumption, are added?

Taking a long-held theory called "Peak Oil Theory" the authors of this groundbreaking new text examine the theory of "Peak Energy" to examine all of these questions. Crude oil and natural gas are the major sources of fuel used to supply energy for various needs. Users of crude oil and natural gas must take into account that these energy sources are, without doubt, non-renewable depleting resources, and the cost of extraction depends not only on the current rate of production but also on the amount of cumulative production. In fact, many pundits believe projections that the world is rapidly

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approaching a precipice, after which crude oil and natural gas will no longer be in ready supply. This phenomenon has given rise to the peak oil theory – peak oil is the point in time when the maximum rate of petroleum recovery from the reservoir is reached, after which the rate of petroleum production enters terminal decline. From this concept has emerged the wider concept of the peak energy theory which, as it is related to the availability of all fossil fuels, is also subject to decline with fossil fuel use. This text, written by two of the world's most well-known, respected, and prolific writers in the energy industry, is a fascinating study of our world's energy needs and the future of the multi-source energy supply on this planet. Whether oil and gas, wind, solar, geothermal, or even nuclear, all sources of energy have their limits, and we, as scientists, engineers, and consumers of energy need to be knowledgeable on these topics.

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This book is a must-have for any engineer, student, scientist, or even layperson interested in energy and the idea of energy sustainability on planet Earth.

The fifth Small Wars Journal/El Centro anthology spans online journal and blog writings for all of 2015 with a thematic focus on narcoterrorism and impunity in the Americas. This anthology is composed of an About SWJ and Foundation section; a memorial to our friend and colleague, George W. Grayson; an acronym listing; a foreword; an introduction; twenty-eight chapters; a postscript; anthology notes; and notes on its twenty-three academic, governmental, and professional contributors.

Drawing on the work of leading researchers and practitioners from a range of disciplines, including economic geography, economics, economic history, finance, law, and public policy, this edited

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collection provides a comprehensive assessment of stranded assets and the environment, covering the fundamental issues and debates, including climate change and societal responses to environmental change, as well as its origins and theoretical basis. The volume provides much needed clarity as the discourse on stranded assets gathers further momentum. In addition to drawing on scholarly contributions, there are chapters from practitioners and analysts to provide a range of critical perspectives. While chapters have been written as important standalone contributions, the book is intended to systematically take the reader through the key dimensions of stranded assets as a topic of research inquiry and practice. The work adopts a broad based social science perspective for setting out what stranded assets are, why they are relevant, and how they might inform the decision-making of firms, investors, policymakers, and

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regulators. The topic of stranded assets is inherently multi-disciplinary, cross-sectoral, and multi-jurisdictional and the volume reflects this diversity. This book will be of great relevance to scholars, practitioners and policymakers with an interest in include economics, business and development studies, climate policy and environmental studies in general.

Combining academic and industrial viewpoints, this is the definitive stand-alone resource for researchers, students and industrialists.

With the latest on foam research, test methods and real-world applications, it provides straightforward answers to why foaming occurs, how it can be avoided, and how different degrees of antifoaming can be achieved.

Confronting the New Climate Normal
Extreme Weather, Health, and Communities

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Forest Carbon, Social Justice, and Environmental Governance

Bubble and Foam Chemistry

Case Studies for a Multi-disciplinary Approach

Stranded Assets and the Environment

Space Studies Board Annual Report 2014

The international intellectual property (IP) law system allows states to develop policies that reflect their national interests.

Therefore, although there is an international minimum standards framework in place, states have widely varying IP laws and differing interpretations of these laws. This book examines whether pluralism in IP law is functional when applied to copyright, patents

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and trademarks on an international basis. The U.S. Nuclear Regulatory Commission (NRC) has prepared this environmental impact statement (EIS) in response to an application submitted by Northwest Medical Isotopes, LLC (NWMI) for a construction permit for the NWMI medical radioisotope production facility. The EIS includes the analysis that evaluates the environmental impacts of the proposed action and considers the following alternatives to the proposed action: (1) the no-action alternative (i.e., the construction permit is denied), (2) one alternative site, and (3) two alternative technologies. After weighing

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the environmental, economic, technical, and other benefits against environmental and other costs, and considering reasonable alternatives, the NRC staff's recommendation, unless safety issues mandate otherwise, is to issue a construction permit to NWMI. The NRC staff based its recommendation on the following factors: the NRC staff's review of the NWMI Environmental Report and responses to requests for additional information; the NRC staff's consultation with Federal, State, and local agencies and Tribal officials; the NRC staff's independent environmental review; and the NRC staff's consideration of public

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comments Related products: Other products published by the U.S. Nuclear Regulatory Commission can be found here: <https://bookstore.gpo.gov/agency/nuclear-regulatory-commission-nrc> Environment & Nature resources collection can be found here: <https://bookstore.gpo.gov/catalog/environment-nature>

The original charter of the Space Science Board was established in June 1958, 3 months before the National Aeronautics and Space Administration (NASA) opened its doors. The Space Science Board and its successor, the Space Studies Board (SSB), have provided expert external and independent scientific

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and programmatic advice to NASA on a continuous basis from NASA's inception until the present. The SSB has also provided such advice to other executive branch agencies, including the National Oceanic and Atmospheric Administration (NOAA), the National Science Foundation (NSF), the U.S. Geological Survey (USGS), the Department of Defense, as well as to Congress. Space Studies Board Annual Report 2013 covers a message from the chair of the SSB, Charles F. Kennel. This report also explains the origins of the Space Science Board, how the Space Studies Board functions today, the SSB's

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collaboration with other National Research Council units, assures the quality of the SSB reports, acknowledges the audience and sponsors, and expresses the necessity to enhance the outreach and improve dissemination of SSB reports. This report will be relevant to a full range of government audiences in civilian space research - including NASA, NSF, NOAA, USGS, and the Department of Energy, as well members of the SSB, policy makers, and researchers. This study discusses the publicly available studies of future flagship- and New Frontiers-class missions NASA initiated since the

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completion of Vision and Voyages. The report considers the priority areas as defined in Vision and Voyages where publicly available mission studies have not been undertaken; appropriate mechanisms by which mission-study gaps might be filled in the near- to mid-term future; and other activities that might be undertaken in the near- to mid-term future to optimize and/or expedite the work of the next planetary science decadal survey committee.

Narcoterrorism and Impunity in the Americas
Innovation for Development and Deployment of Increasingly Clean Electric Power Technologies

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Proceedings of the 2013 Workshop Series on
Big Data Benchmarking, WBDB.cn, Xi'an, China,
July16-17, 2013 and WBDB.us, San José, CA,
USA, October 9-10, 2013, Revised Selected
Papers

Foundations of Marketing

Ethics and climate change

A Forensic Analysis

Report Series: Committee on Astrobiology and
Planetary Science

What do we know about Mediterranean Cold (Deep)-Water
coral ecosystems? In this book, specialists offer answers and
insights with a series of chapters and short papers about the
paleoecology, biology, physiology and ecology of the corals

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and other organisms that comprise these ecosystems. Structured on a temporal axis—Past, Present and Future—the reviews and selected study cases cover the cold and deep coral habitats known to date in the Mediterranean Basin. This book illustrates and explains the deep Mediterranean coral habitats that might have originated similar thriving ecosystems in today's Atlantic Ocean.

Discover the essentials in today's marketing and examine the latest trends with the significant visuals and stimulating, timely discussions found in *Pride/Ferrell's* popular *FOUNDATIONS OF MARKETING, 7E*. You'll find meaningful coverage of current marketing strategies and concepts, including social media, sustainability, globalization, customer relationship management, supply chain management, and

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digital marketing. This edition introduces emerging topics, such as social and environmental responsibility, entrepreneurship, and new trends in marketing, as the authors depict the changing nature of business and prepare readers for success in a competitive world. Captivating photos, screenshots, advertisements, and examples from actual life illustrate current issues, while the book's proven learning features help you develop the decision-making and marketing skills you need for professional success. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The two-volume set LNCS 9779 and LNCS 9780 constitutes the refereed proceedings of the 28th International Conference

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on Computer Aided Verification, CAV 2016, held in Toronto, ON, USA, in July 2016. The total of 46 full and 12 short papers presented in the proceedings was carefully reviewed and selected from 195 submissions. The papers were organized in topical sections named: probabilistic systems; synthesis; constraint solving; model checking; program analysis; timed and hybrid systems; verification in practice; concurrency; and automata and games.

The Arctic has again become one of the leading issues on the international foreign policy agenda, in a manner unseen since the Cold War. Drawing on the perspectives of geo-politics and international law, this Handbook offers fresh insights and perspectives on the most pressing issues, grouped under the headings of political ascendancy, climate and environmental

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issues, resources and energy, and the response and policies of affected countries.

Principles and Practice

Advancing Big Data Benchmarks

Personal Project for the IB MYP 4&5

Negotiating Climate Change

Datacenter Connectivity Technologies

Communicating Climate-Change and Natural Hazard Risk and Cultivating Resilience

Getting Ready for the Next Planetary Science Decadal Survey

Decades of brain imaging experiments have revealed important insights into the architecture of the human brain and the detailed anatomic basis for the neural

dynamics supporting human cognition. However, technical restrictions of traditional brain imaging approaches including functional magnetic resonance tomography (fMRI), positron emission tomography (PET), and magnetoencephalography (MEG) severely limit participants' movements during experiments. As a consequence, our knowledge of the neural basis of human cognition is rooted in a dissociation of human cognition from what is arguably its foremost, and certainly its evolutionarily most determinant function, organizing our behavior so as to optimize its consequences in our complex, multi-scale, and ever-changing environment. The concept of natural cognition, therefore, should not be separated from

our fundamental experience and role as embodied agents acting in a complex, partly unpredictable world. To gain new insights into the brain dynamics supporting natural cognition, we must overcome restrictions of traditional brain imaging technology. First, the sensors used must be lightweight and mobile to allow monitoring of brain activity during free participant movements. New hardware technology for electroencephalography (EEG) and near infrared spectroscopy (NIRS) allows recording electrical and hemodynamic brain activity while participants are freely moving. New data-driven analysis approaches must allow separation of signals arriving at the sensors from the brain and from non-

brain sources (neck muscles, eyes, heart, the electrical environment, etc.). Independent component analysis (ICA) and related blind source separation methods allow separation of brain activity from non-brain activity from data recorded during experimental paradigms that stimulate natural cognition. Imaging the precisely timed, distributed brain dynamics that support all forms of our motivated actions and interactions in both laboratory and real-world settings requires new modes of data capture and of data processing. Synchronously recording participants' motor behavior, brain activity, and other physiology, as well as their physical environment and external events may be termed mobile brain/body

imaging ('MoBI'). Joint multi-stream analysis of recorded MoBI data is a major conceptual, mathematical, and data processing challenge. This Research Topic is one result of the first international MoBI meeting in Delmenhorst Germany in September 2013. During an intense workshop researchers from all over the world presented their projects and discussed new technological developments and challenges of this new imaging approach. Several of the presentations are compiled in this Research Topic that we hope may inspire new research using the MoBI paradigm to investigate natural cognition by recording and analyzing the brain dynamics and behavior of participants performing a wide range of

naturally motivated actions and interactions. Over the last four decades computers and the internet have become an intrinsic part of all our lives, but this speed of development has left related philosophical enquiry behind. Featuring the work of computer scientists and philosophers, these essays provide an overview of an exciting new area of philosophy that is still taking shape.

Space Studies Board Annual Report 2014 National Academies Press

Become an independent, lifelong learner and achieve your best possible project grade, while strengthening and practising your ATL skills. - Engage in practical explorations through a cycle of inquiry, action and

reflection. - Build ATL skills with strategies, detailed examiner advice, expert tips, and infographics in every chapter for visual learners. - Clarify IB requirements with concise and clear explanations, including assessment objectives and rules on academic honesty. - Foster the attributes of the IB learner profile with explicit reference made throughout to link with your research. - Progress independently through your project with advice, tips and common mistakes to avoid.

A study of national commitments

China's Way to Carbon Emissions Reduction

A Midterm Review

The Power of Change

***Research Handbook on Climate Governance
Is Intellectual Property Pluralism Functional?
Competition for Water Resources***

This circular stems from a study carried out for FAO projects "Sustainable Fisheries Management and Biodiversity Conservation of Deep-Sea Living Marine Resources and Ecosystems in the Areas Beyond National Jurisdiction"

(GCP/GLO/366/GFF) and "Deep-Sea Sponge Grounds Ecosystems of the North Atlantic: An Integrated Approach Towards their Preservation and Sustainable Exploitation"

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(GCP/GLO/679/EC). These projects included outputs related to the economic valuation of goods and services provided by the deep seas in areas beyond national jurisdiction. This study compiled an estimate of the total economic value (TEV) of the deep seas, which considered the provision of deep-water fish, the harvest of precious corals, the use of substances of marine origin as pharmaceuticals, the extraction of deep and ultra-deep oil and the potential mining of mineral resources from the seafloor, carbon sequestration

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carried out by the deep seas, the importance of scientific research in the deep seas, and touristic activities with submersibles to visit sites such as the Titanic shipwreck. Comprehensively, the TEV assessed for the deep-sea ecosystem as a whole is estimated at USD 267 billion per year. Ninety two percent of the economic value originates from abiotic resources (oil and minerals), 5 percent from biotic resources (fish, corals and pharmaceuticals of marine origin), 2 percent from cultural services (scientific

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research and tourism/recreation), and 1 percent from carbon sequestration. This volume presents a unique interdisciplinary approach, drawing on expertise in both the natural and social sciences. A primary goal is to present a scientific and socially integrated perspective on place-based community engagement, extreme weather, and health. Each year extreme weather is leading to natural disasters around the world and exerting huge social and health costs. The International Monetary Fund (2012)

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estimates that since 2010, 700 worldwide natural disasters have affected more than 450 million people around the globe. The best coping strategy for extreme weather and environmental change is a strong offense. Communities armed with a spatial understanding of their resources, risks, strengths, weaknesses, community capabilities, and social networks will have the best chance of reducing losses and achieving a better outcome when extreme weather and disaster strikes. Electricity, supplied reliably and

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affordably, is foundational to the U.S. economy and is utterly indispensable to modern society. However, emissions resulting from many forms of electricity generation create environmental risks that could have significant negative economic, security, and human health consequences. Large-scale installation of cleaner power generation has been generally hampered because greener technologies are more expensive than the technologies that currently produce most of our power. Rather than trade affordability and

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reliability for low emissions, is there a way to balance all three? The Power of Change: Innovation for Development and Deployment of Increasingly Clean Energy Technologies considers how to speed up innovations that would dramatically improve the performance and lower the cost of currently available technologies while also developing new advanced cleaner energy technologies. According to this report, there is an opportunity for the United States to continue to lead in the pursuit of increasingly clean, more

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efficient electricity through innovation in advanced technologies. The Power of Change: Innovation for Development and Deployment of Increasingly Clean Energy Technologies makes the case that America's advantages—world-class universities and national laboratories, a vibrant private sector, and innovative states, cities, and regions that are free to experiment with a variety of public policy approaches—position the United States to create and lead a new clean energy revolution. This study focuses on five

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paths to accelerate the market adoption of increasing clean energy and efficiency technologies: (1) expanding the portfolio of cleaner energy technology options; (2) leveraging the advantages of energy efficiency; (3) facilitating the development of increasing clean technologies, including renewables, nuclear, and cleaner fossil; (4) improving the existing technologies, systems, and infrastructure; and (5) leveling the playing field for cleaner energy technologies. The Power of Change:

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Innovation for Development and Deployment of Increasingly Clean Energy Technologies is a call for leadership to transform the United States energy sector in order to both mitigate the risks of greenhouse gas and other pollutants and to spur future economic growth. This study's focus on science, technology, and economic policy makes it a valuable resource to guide support that produces innovation to meet energy challenges now and for the future. This book constitutes the thoroughly refereed joint proceedings of the Third

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and Fourth Workshop on Big Data Benchmarking. The third WBDB was held in Xi'an, China, in July 2013 and the Fourth WBDB was held in San José, CA, USA, in October, 2013. The 15 papers presented in this book were carefully reviewed and selected from 33 presentations. They focus on big data benchmarks; applications and scenarios; tools, systems and surveys.

28th International Conference, CAV 2016, Toronto, ON, Canada, July 17-23, 2016, Proceedings, Part II

Risk, Resilience and Opportunity

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Handbook of the Politics of the Arctic

Turn Down the Heat

Air Pollution, Clean Energy and Climate
Change

Experiences and Management Approaches in
the US and Europe

Towards a New Cognitive Neuroscience:
Modeling Natural Brain Dynamics

The original charter of the Space Science Board was established in June 1958, 3 months before the National Aeronautics and Space Administration (NASA) opened its doors. The Space Science Board and its successor, the Space Studies Board (SSB), have provided expert external and independent scientific and

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programmatic advice to NASA on a continuous basis from NASA's inception until the present. The SSB has also provided such advice to other executive branch agencies, including the National Oceanic and Atmospheric Administration (NOAA), the National Science Foundation (NSF), the U.S. Geological Survey (USGS), the Department of Defense, as well as to Congress. Space Studies Board Annual Report 2014 covers a message from the chair of the SSB, David N. Spergel. This report also explains the origins of the Space Science Board, how the Space Studies Board functions today, the SSB's collaboration with other National Research Council units, assures the quality of the SSB reports, acknowledges the audience and sponsors, and expresses the necessity to enhance the outreach and improve

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dissemination of SSB reports. This report will be relevant to a full range of government audiences in civilian space research - including NASA, NSF, NOAA, USGS, and the Department of Energy, as well members of the SSB, policy makers, and researchers.

This book examines how an error in global meta-policy set climate change negotiations on an unproductive course. The decision to base negotiations on the Montreal Protocol and overlook the importance of interests, it argues, institutionalised an approach doomed to fail. By analysing interests, science and norms in the process, and the neglect of ‘ interactive minilateralism ’ , learning was delayed until the more promising Paris Agreement was finally concluded, only to encounter a

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Trump Presidency, which (ironically) might offer further learning opportunities.

The Routledge Handbook of Graffiti and Street Art integrates and reviews current scholarship in the field of graffiti and street art. Thirty-seven original contributions are organized around four sections: History, Types, and Writers/Artists of Graffiti and Street Art; Theoretical Explanations of Graffiti and Street Art/Causes of Graffiti and Street Art; Regional/Municipal Variations/Differences of Graffiti and Street Art; and, Effects of Graffiti and Street Art. Chapters are written by experts from different countries throughout the world and their expertise spans the fields of American Studies, Art Theory, Criminology, Criminal justice, Ethnography, Photography, Political Science,

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Psychology, Sociology, and Visual Communication. The Handbook will be of interest to researchers, instructors, advanced students, libraries, and art gallery and museum curators. This book is also accessible to practitioners and policy makers in the fields of criminal justice, law enforcement, art history, museum studies, tourism studies, and urban studies as well as members of the news media. The Handbook includes 70 images, a glossary, a chronology, and the electronic edition will be widely hyperlinked.

Unlike many titles on environmental issues that portend a dark future, *Environmental Success Stories* delves into the most daunting ecological and environmental challenges humankind has faced and shows how scientists, citizens, and a responsive

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public sector have dealt with them successfully. In addition to presenting the basic chemical and environmental science underlying problems like providing clean drinking water, removing DDT and lead from agriculture and our homes, and curtailing industrial pollution, this book also discusses the political actors, agency regulators, and community leaders who have collaborated to enact effective legislation. Sharing the stories of the people, organizations, and governments who have addressed these problems successfully, Frank M. Dunnivant explains how we might confront the world's largest and most complex environmental crisis: climate change. Now is the time for rededicated scientific exploration and enlightened citizen action to save our environment, and Dunnivant's book offers a

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stirring call to action.

Planning for Tourism

Hazardous Forecasts and Crisis Scenario Generator

Myth or Reality?

Understanding the Deep-Sea Realms of Coral

Open Scientific Data

Why Choosing and Reusing the RIGHT DATA Matters

The Carbon Fix

This book presents a crisis scenario generator with black swans, black butterflies and worst case scenarios. It is the most useful scenario

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generator that can be used to manage assets in a crisis-prone period, offering more reliable values for Value at Risk (VaR), Conditional Value at Risk (CVaR) and Tail Value at Risk (TVaR). Hazardous Forecasts and Crisis Scenario Generator questions how to manage assets when crisis probability increases, enabling you to adopt a process for using generators in order to be well prepared for handling crises. Evaluates risk-oriented

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Paper Grade 12

philosophy, forecast risk-oriented philosophy and its processes Features scenario-building processes, with an emphasis on main and extreme scenarios Discusses asset management processes using a generator methodology to avoid risk understatement and increase optimization.

AIR POLLUTION, CLEAN ENERGY AND CLIMATE CHANGE Anthropogenic climate change is a globally recognized threat multiplier. Yet, decades of

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intergovernmental negotiations have failed to curb toxic levels of fossil fuel energy-related air pollution which the World Health Organization (WHO) has identified as the world's largest, single environmental health risk. Lying in plain view are the troubling truths about the morbidity and ill-health burdens associated with anthropogenic climate change that are borne by those who have done the least to contribute to per capita emissions of greenhouse

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gas emissions. Ignoring the nexus between air pollution, lack of access to clean energy and climate adversities represents a collective failure of the UN's ambitious, universally agreed upon 2030 Sustainable Development Agenda (SDA) which pledged 'to leave no one behind'. This book highlights the air pollution crisis that emanates from the heavy reliance on polluting forms of energy and the urbanization of poverty in developing countries. It provides a

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framework for understanding why the broader sustainable development community needs to address the more neglected intersection between adverse climatic impacts and energy-related air pollution which devastates the lives of the poorest and most vulnerable amongst us, especially young children, women and the elderly. It focuses on the importance of breaking down persistent global silos and goals on sustainable energy for all, and climate change

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reflected in the UNs 2030 SDA, and the 2015 Paris Agreement. Integrating clean air and climate mitigation measures that specifically include curbing short lived climate pollutants such as black carbon via innovative partnerships/modalities are seen as vital to clean energy and climate responsive action. This book argues that linked actions by non-nation state actors aimed at reducing air pollution and ameliorating short term climate

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Paper Grade 12

pollutants in the most populous cities, particularly in countries like India where annual average particulate matter pollution levels consistently exceed WHO guidelines are essential in reducing grave health costs and disease burdens. Air Pollution, Clean Energy and Climate Change will be of particular interest to policy makers, researchers, environmental advocates, civil society stakeholders and practitioners who want to understand

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the urgency of addressing linkages between climate change, fossil fuel energy, air pollution and public health risks. The cover image is an oil painting by Anilla Cherian, which incorporates tree bark and twigs, and serves as a reminder of the daily energy sources used by millions who lack access to clean energy and are exposed to high levels of household air pollution. It is the second-part of a series, with the first one serving as

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the cover image to Energy and Global Climate Change (Cherian, 2015).

Photograph of painting by Alison Sheehy Photography.

This text provides an innovative approach to the pedagogy of contemporary planning processes within different cultural contexts globally. It adopts an innovative multi-disciplinary social science approach and through the inclusion of international case studies, considers

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the extent to which intelligent design has enabled the needs of disabled residents and visitors to have universal access to social spaces and facilities. In incorporating the consideration into the fabric of the book it will encourage the mainstreaming of universal design and accessible tourism, as keystones of planning processes within the C21st. A Report for the World Bank by the Potsdam Institute for Climate Impact

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Paper Grade 12

Research and Analytics.

Environmental Impact Statement for
Construction Permit for the Northwest
Medical Isotopes Radioisotope

Production Facility Final Report

The Professions and Civic Life

Philosophy, Computing and Information
Science

Handbook of Clean Energy Systems, 6
Volume Set

Routledge Handbook of Graffiti and
Street Art

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**Failure by Design : Hearing Before the
Committee on Science, Space, and
Technology, House of Representatives,
One Hundred Thirteenth Congress, Second
Session, July 30, 2014**

Towards a Sustainable Future

Given the growing urgency to develop global responses to a changing climate, The Carbon Fix examines the social and equity dimensions of putting the world's forests—and, necessarily, the rural people who manage and depend on them—at the center of climate policy efforts such as REDD+, intended to slow global warming. The book assesses the

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implications of international policy approaches that focus on forests as carbon and especially, forest carbon offsets, for rights, justice, and climate governance. Contributions from leading anthropologists and geographers analyze a growing trend towards market principles and financialization of nature in environmental governance, placing it into conceptual, critical, and historical context. The book then challenges perceptions of forest carbon initiatives through in-depth, field-based case studies assessing projects, policies, and procedures at various scales, from informed consent to international carbon auditing. While providing a mixed assessment of the potential for forest carbon initiatives to balance

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carbon with social goals, the authors present compelling evidence for the complexities of the carbon offset enterprise, fraught with competing interests and interpretations at multiple scales, and having unanticipated and often deleterious effects on the resources and rights of the world's poorest peoples—especially indigenous and rural peoples. The Carbon Fix provides nuanced insights into political, economic, and ethical issues associated with climate change policy. Its case approach and fresh perspective are critical to environmental professionals, development planners, and project managers; and to students in upper level undergraduate and graduate courses in

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environmental anthropology and geography, environmental and policy studies, international development, and indigenous studies.

Unified Field Mechanics, the topic of the 9th international symposium honoring noted French mathematical physicist Jean-Pierre Vigièr cannot be considered highly speculative as a myopic critic might surmise. The 8th Vigièr Symposium proceedings 'The Physics of Reality' should in fact be touted as a companion volume because of its dramatic theoretical Field Mechanics in additional dimensionality. Many still consider the Planck-scale zero-point field stochastic quantum foam as the 'basement of reality'. This could only be considered true under the

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limitations of the Copenhagen interpretation of quantum theory. As we enter the next regime of Unified Field Mechanics we now know that the energy-dependent Einstein-Minkowski manifold called spacetime has a finite radius beyond which a large-scale multiverse beckons. So far a battery of 14 experiments has been designed to falsify the model. When the 1st is successfully performed, a revolution in Natural Science will occur! This volume strengthens and expands the theoretical and experimental basis for that immanent new age.

This book shows how the vision for open access to scientific data can be more readily achieved through a staged model that research funders, policy makers,

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scientists, and research organizations can adopt in their practice. Drawing on her own experiences with data processing, on early findings with open scientific data at CERN (the European Organization for Nuclear Research), and from case studies of shared clinical trial data, the author updates our understanding of research data - what it is; how it dynamically evolves across different scientific disciplines and across various stages of research practice; and how it can, and indeed should, be shared at any of those stages. The result is a flexible and pragmatic path for implementing open scientific data.

The 2009 United Nations climate conference in Copenhagen is often represented as a watershed in

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global climate politics, when the diplomatic efforts to negotiate a successor agreement to the Kyoto Protocol failed and was replaced by a fragmented and decentralized climate governance order. In the post-Copenhagen landscape the top-down universal approach to climate governance has gradually given way to a more complex, hybrid and dispersed political landscape involving multiple actors, arenas and sites. The Handbook contains contributions from more than 50 internationally leading scholars and explores the latest trends and theoretical developments of the climate governance scholarship.

Visions into Voyages for Planetary Science in the
Decade 2013-2022

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Environmental Success Stories

Interdisciplinary Engagement Strategies

The Choice of Regulatory Instruments and Its Legal
Challenges

Space Studies Board Annual Report 2013

EPA's Carbon Plan

Mediterranean Cold-Water Corals: Past, Present and
Future

This book calls for a renewed examination of the professions as public or semi-public institutions with significant influence on civic culture. It offers a treatment of twelve different professions, showing how each traditionally understood itself, how it functioned within society, and how it understands itself

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today.

The Handbook of Clean Energy Systems brings together an international team of experts to present a comprehensive overview of the latest research, developments and practical applications throughout all areas of clean energy systems. Consolidating information which is currently scattered across a wide variety of literature sources, the handbook covers a broad range of topics in this interdisciplinary research field including both fossil and renewable energy systems. The development of intelligent energy systems for efficient energy processes and mitigation technologies for the reduction of environmental pollutants is explored in depth, and environmental, social and economic impacts are also addressed. Topics covered include:

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Volume 1 - Renewable Energy: Biomass resources and biofuel production; Bioenergy Utilization; Solar Energy; Wind Energy; Geothermal Energy; Tidal Energy. Volume 2 - Clean Energy Conversion Technologies: Steam/Vapor Power Generation; Gas Turbines Power Generation; Reciprocating Engines; Fuel Cells; Cogeneration and Polygeneration. Volume 3 - Mitigation Technologies: Carbon Capture; Negative Emissions System; Carbon Transportation; Carbon Storage; Emission Mitigation Technologies; Efficiency Improvements and Waste Management; Waste to Energy. Volume 4 - Intelligent Energy Systems: Future Electricity Markets; Diagnostic and Control of Energy Systems; New Electric Transmission Systems; Smart Grid and Modern

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Electrical Systems; Energy Efficiency of Municipal Energy Systems; Energy Efficiency of Industrial Energy Systems; Consumer Behaviors; Load Control and Management; Electric Car and Hybrid Car; Energy Efficiency Improvement. Volume 5 - Energy Storage: Thermal Energy Storage; Chemical Storage; Mechanical Storage; Electrochemical Storage; Integrated Storage Systems. Volume 6 - Sustainability of Energy Systems: Sustainability Indicators, Evaluation Criteria, and Reporting; Regulation and Policy; Finance and Investment; Emission Trading; Modeling and Analysis of Energy Systems; Energy vs. Development; Low Carbon Economy; Energy Efficiencies and Emission Reduction. Key features: Comprising over 3,500 pages in 6 volumes, HCES

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presents a comprehensive overview of the latest research, developments and practical applications throughout all areas of clean energy systems, consolidating a wealth of information which is currently scattered across a wide variety of literature sources. In addition to renewable energy systems, HCES also covers processes for the efficient and clean conversion of traditional fuels such as coal, oil and gas, energy storage systems, mitigation technologies for the reduction of environmental pollutants, and the development of intelligent energy systems. Environmental, social and economic impacts of energy systems are also addressed in depth. Published in full colour throughout. Fully indexed with cross referencing within and between all six volumes. Edited by leading

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researchers from academia and industry who are internationally renowned and active in their respective fields. Published in print and online. The online version is a single publication (i.e. no updates), available for one-time purchase or through annual subscription.

Now that the most recent scientific estimates have shown that China has become the world's largest source of greenhouse gas emissions, China's influence on the world's environment and sustainable development highlights the importance of tailoring Chinese climate change law to conform with the requirements of international conventions and agreements on climate change. This thorough analysis, based on an examination of climate status, legal background, and current regulatory

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systems in China, examines the potential role of different policy instruments in reducing carbon emissions in order to find an appropriate choice for China, and recommends approaches to key issues for relevant authorities. The author conducts a comprehensive and in-depth study on the three mainstream environmental policy instruments used to control carbon emissions – the cap-and-trade system, the carbon tax, and command-and-control regulations – in a Chinese context. She reviews China's current policies, and elucidates how the issues of climate change and global warming call for social, environmental, economic, and legal reforms in China, especially in the areas of administrative law and property rights law. Among the issues and topics covered are the

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following: - key issues on designing and implementing each of the three policy instruments; - the choice of regulatory instruments for carbon emissions reduction in a socialist market economy based on the discussion of market failure and government failure theories; - legal challenges from China's current administrative legislation and the definition of carbon emissions entitlements; - practical effect of China's climate change policy at the national, provincial, and local levels; - effectiveness of China's implementation of its international obligations; - lessons learned from schemes implemented in the United States and Australia; - comparison of China's seven regional pilot emissions trading scheme (ETS) programmes with the well-established EU ETS; - linkage between China's

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ETS and other ETSs from a global perspective; and - future direction of an emerging carbon market in China. The analysis assesses the critical costs and benefits of each approach in the context of selected case studies, taking legal literature in the field fully into account. Given that the Chinese government is taking steps to reduce emissions by altering energy production and usage and is signalling a willingness to make similar commitments in a multilateral treaty, it is very timely and important for lawmakers and scholars, within and outside China, to think about new and appropriate regulatory measures to respond to the crisis and plan for a sustainable future. This study provides not only a useful benchmark for both China and other countries in formulating initiatives on enhancing climate

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protection, but also details the global implications for governments and for international organizations concerned with the understanding between China and the rest of the world in the context of climate change mitigation.