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A Guide to Building a Better World

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Religion and Higher Education in Europe and North America

Environmental Impact Statement for Construction Permit for the Northwest Medical Isotopes Radioisotope Production Facility Final Report

Fake Physics: Spoofs, Hoaxes and Fictitious Science

Proceeding of the 2nd International Conference on Tropical Agriculture

Introduction to Energy and Climate

How Journalists Work the Green Beat

Scalability and Performance Portability

Hearing Voices: The History of Psychiatry in Ireland is a monumental work by one of Ireland's leading Clinical Psychiatrists, encompassing every psychiatric development from the Middle Ages to the present day and examining all of its far-reaching social and political effects.

Sapira's Art & Science of Bedside Diagnosis

Covering the Environment

Nuclear Energy: A Christian Case

The Formative Years of Relativity

Handbook of Laser Technology and Applications

Gaby González and the Search for Einstein's Ripples in Space-Time

Applications of Big Data and Business Analytics in Management

Coronal Magnetometry

Hearing Voices

Negotiating Climate Change

Rising

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GIDEON WIGGINS

Smarter New York City SAGE Publishing India

Increasingly stringent environmental regulations and industry adoption of waste minimization guidelines have thus, stimulated the need for the development of recycling and reuse options for metal related waste. This book, therefore, gives an overview of the waste generation, recycle and reuse along the mining, beneficiation, extraction, manufacturing and post-consumer value chain. This book reviews current status and future trends in the recycling and reuse of mineral and metal waste and also details the policy and legislation regarding the waste management, health and environmental impacts in the mining, beneficiation, metal extraction and manufacturing processes. This book is a useful reference for engineers and researchers in industry, policymakers and legislators in governance, and academics on the current status and future trends in the recycling and reuse of mineral and metal waste. Some of the key features of the book are as follows: Holistic approach to waste generation, recycling and reuse along the minerals and metals extraction. Detailed overview of metallurgical waste generation. Practical examples with complete flow sheets, techniques and interventions on waste management. Integrates the technical issues related to efficient resources utilization with the policy and regulatory framework. Novel approach to addressing future commodity shortages.

A Guide to Building a Better World CRC Press

Religion and Higher Education in Europe and North America illuminates the experiences of staff and students in higher education as they negotiate the university environment. Religious extremism has been rising across Europe, whilst recent attacks have thrown public debate around the place of religion on campus, the role of universities in recognising and managing religious fundamentalism and freedom of speech on campus into sharper focus. Despite these debates, research exploring religion on campus has been largely absent from discourse on higher education outside of America, with policy and practices designed to deal with religion on campus largely founded on supposition

rather than evidence. This book speaks into that void, including results from recent studies in the field which form an empirically grounded base from a broad variety of perspectives on religion at universities. Aiming to offer a deeper perspective, more dialogue, and engagement on the experiences of students, Religion and Higher Education in Europe and North America presents us not only with an opportunity to counter growing trends of intolerance, but for people to connect with the humanity of others. Focusing on what research reveals about staff and students' experiences, it incorporates research from different academic disciplines including sociology, education, social policy, theology and religious studies, and across different faith and belief groups. This thought-provoking and challenging volume features chapters written by researchers involved in informing policy and practice relating to religion and belief in higher education in the UK, US, Canada, France and the Netherlands. Spanning the academic-practitioner divide, students and academics interested in the sociology of religion and of higher education, as well as those responsible for the practical management of campus life, will find this text of particular importance.

Revealing the Science of Peak Performance Edward Elgar Publishing

Essential reading for beginning and experienced clinicians alike, Sapira's *Art & Science of Bedside Diagnosis*, Fifth Edition, discusses the patient interview and the physical examination in an engaging, storytelling style. Tried and true methods are described in step-by-step detail, and include clinical pearls, vignettes, practical clinical experiences, personal history, explanations of the physiologic significance of findings, and extensive discussions of evidence-based medicine. It's a useful guide for learning and reinforcing effective bedside diagnosis techniques at all levels and stages of clinical practice.

Carbon-Neutral Architectural Design CRC Press

This book reveals unique transport phenomena and functionalities in topological insulators coupled with magnetism and superconductivity. Topological insulators are a recently discovered class of materials that possess a spin-momentum-locked surface state. Their exotic spin texture makes them an exciting platform for investigating emergent phenomena,

especially when coupled with magnetism or superconductivity. Focusing on the strong correlation between electricity and magnetism in magnetic topological insulators, the author presents original findings on current-direction-dependent nonreciprocal resistance, current-induced magnetization reversal and chiral edge conduction at the domain wall. In addition, he demonstrates how the coupling between superconductivity and topological surface state leads to substantial nonreciprocal resistance. The author also elucidates the origins of these phenomena and deepens readers' understanding of the topologically nontrivial electronic state. The book includes several works which are published in top journals and were selected for the President's Award by the University of Tokyo and for the Ikushi Prize, awarded to distinguished Ph.D. students in Japan.

Reconsidering the Mission of the Church CRC Press

From the shaping of identities and belongings through to current reconfigurations of nation, governance and state under a Hindu-Right dispensation, this book tracks the sentiments and structures that sustain the nation and nationalism in India. Nation, Nationalism and the Public Sphere: Religious Politics in India provides wide-ranging accounts of the growth and transformations of the nation, focusing especially on the intimate interplay of nation-state and nationalism with dominant religion. Drawing upon the perspectives of history, politics, anthropology, literature, film and media studies, this book explores key themes such as the appropriation and impact of western concepts of religion and the modern in postcolonial India and Pakistan, corporate bids to foster faith by erecting temples, formations of contemporary cosmopolitan religious imaginaries, the politics of cow protection, the rise of Narendra Modi as a national hero, and the fetish of the national in news channel debates. The book provides important insights into the success of the Hindu-Right, the discourse of religious-cultural nationalism, and their ramifications for democracy and citizenship.

Waste Production and Utilization in the Metal Extraction Industry Cambridge University Press

A Pulitzer Prize Finalist, this powerful elegy for our disappearing coast "captures nature with precise words that almost amount to poetry" (The New York Times). Hailed as "the book on climate

change and sea levels that was missing” (Chicago Tribune), *Rising* is both a highly original work of lyric reportage and a haunting meditation on how to let go of the places we love. With every record-breaking hurricane, it grows clearer that climate change is neither imagined nor distant—and that rising seas are transforming the coastline of the United States in irrevocable ways. In *Rising*, Elizabeth Rush guides readers through these dramatic changes, from the Gulf Coast to Miami, and from New York City to the Bay Area. For many of the plants, animals, and humans in these places, the options are stark: retreat or perish. Rush sheds light on the unfolding crises through firsthand testimonials—a Staten Islander who lost her father during Sandy, the remaining holdouts of a Native American community on a drowning Isle de Jean Charles, a neighborhood in Pensacola settled by escaped slaves hundreds of years ago—woven together with profiles of wildlife biologists, activists, and other members of these vulnerable communities. A Guardian, Publishers Weekly, and Library Journal Best Book Of 2018 Winner of the National Outdoor Book Award A Chicago Tribune Top Ten Book of 2018

Failure Modes, Effects and Causes of Microbiologically Influenced Corrosion Springer

Have you ever wondered what it is like to work on a nuclear power plant? Robert Dutch worked in the UK's nuclear industry for many years as a scientist and then as a tutor at a nuclear training center. He also holds degrees in theology. Drawing upon his qualifications and experience Robert addresses the controversial issue of nuclear power from a Christian perspective. In contrast to a negative nuclear narrative often portrayed, he presents a positive nuclear narrative alongside other ways of generating electricity. Be prepared to be challenged to think seriously about nuclear's merits in providing clean, low-carbon electricity.

Developing a Sustainable Environment Springer Nature

Discover new realms of outer space in this picture book biography of scientist Gabriela Gonzalez, who immigrated to America and became a ground-breaking scientist. Written by a molecular biologist and illustrated by an award-winning artist, this stunning picture book explores science, space, and history. In 1916, Albert Einstein had a theory. He thought that somewhere out in the universe, there were collisions in space. These collisions could cause little sound waves in the fabric of space-time that might carry many secrets of the distant universe. But it was only a

theory. He could not prove it in his lifetime. Many years later, an immigrant scientist named Gabriela Gonzalez asked the same questions. Armed with modern technology, she joined a team of physicists who set out to prove Einstein's theory. At first, there was nothing. But then... they heard a sound. Gabriela and her team examined, and measured, and re-measured until they were sure. Completing the work that Albert Einstein had begun 100 years earlier, Gonzalez broke ground for new space-time research. In a fascinating picture book that covers 100 years, 2 pioneering scientists, and 1 trailblazing discovery, Patricia Valdez sheds light on a little known but extraordinary story.

Shaping the Future of the Fourth Industrial Revolution
Hendrickson Publishers

Innovation is often presented as being in the exclusive domain of the private sector. Yet despite widespread perceptions of public-sector inefficiency, government agencies have much to teach us about how technological and social advances occur. Improving governance at the municipal level is critical to the future of the twenty-first-century city, from environmental sustainability to education, economic development, public health, and beyond. In this age of acceleration and massive migration of people into cities around the world, this book explains how innovation from within city agencies and administrations makes urban systems smarter and shapes life in New York City. Using a series of case studies, *Smarter New York City* describes the drivers and constraints behind urban innovation, including leadership and organization; networks and interagency collaboration; institutional context; technology and real-time data collection; responsiveness and decision making; and results and impact. Cases include residential organic-waste collection, an NYPD program that identifies the sound of gunshots in real time, and the Vision Zero attempt to end traffic casualties, among others. Challenging the usefulness of a tech-centric view of urban innovation, *Smarter New York City* brings together a multidisciplinary and integrated perspective to imagine new possibilities from within city agencies, with practical lessons for city officials, urban planners, policy makers, civil society, and potential private-sector partners.

Emergent Transport Properties of Magnetic Topological Insulator Heterostructures Irish Academic Press

Language, apart from its cultural and social dimension, has a scientific side that is connected not only to the study of 'grammar'

in a more or less traditional sense, but also to disciplines like mathematics, physics, chemistry and biology. This book explores developments in linguistic theory, looking in particular at the theory of generative grammar from the perspective of the natural sciences. It highlights the complex and dynamic nature of language, suggesting that a comprehensive and full understanding of such a species-specific property will only be achieved through interdisciplinary work.

Language, Syntax, and the Natural Sciences Frontiers Media SA

The British have always been obsessed by the weather. Thomas Hornsby, who founded the Radcliffe Observatory in Oxford in 1772, began weather observations at the site. They continue daily to this day, unbroken since 14 November 1813, the longest continuous series of single-site weather records in the British Isles, and one of the longest in the world. *Oxford Weather and Climate since 1767* represents the first full publication of this newly-digitised record of English weather, which will appeal to interested readers and climate researchers alike. The book celebrates this unique and priceless Georgian legacy by describing and explaining how the records were (and still are) made, examines monthly and seasonal weather patterns across two centuries, and considers the context of long-term climate change. Local documentary sources and contemporary photographs bring the statistics to life, from the clouds of 'smoak' from the Great Fire of London in 1666 to the most recent floods. This book explores all the weather extremes, from bitter cold winters to hot, dry summers, bringing to life the painstaking measurements made over the last 250 years.

Oxford Weather and Climate since 1767 Routledge

Deforestation and land use change have led to a strong reduction of tropical forest cover during the last decades. Climate change will amplify the pressure to the remaining refuges in the next years. In addition, tropical regions are facing increasing atmospheric inputs of nutrients, which will have unknown consequences for the structure and functioning of these systems, no matter if they are within protected areas or not. Even remote areas are expected to receive rising amounts of nutrients. The effects of higher rates of atmospheric nutrient deposition on the biological diversity and ecosystem functioning of tropical ecosystems are poorly understood and our knowledge of nutrient

fluxes and nutrient limitation in tropical forest ecosystems is still limited. Yet, it will be of paramount importance to know the effects of increased nutrient availability to conserve these ecosystems with their biological and functional diversity. During the last years, research efforts have more and more focused on the understanding of the role of nutrients in tropical ecosystems and several coordinated projects have been established that study the effects of experimental nutrient addition. This Research Topic combines results from experiments and from observational studies with the aim to review and conclude on our current knowledge on the role of additional nutrients in ecosystems.

Performance and Knowledge Milkweed Editions

The purpose of this textbook is to provide a well-rounded working knowledge of both climate change and environmental sustainability for a wide range of students. Students will learn core concepts and methods to analyze energy and environmental impacts; will understand what is changing the earth's climate, and what that means for life on earth now and in the future. They will also have a firm understanding of what energy is and how it can be used. This text intends to develop working knowledge of these topics, with both technical and social implications. Students will find in one volume the integration and careful treatment of climate, energy, and sustainability.

Exascale Scientific Applications Rowman & Littlefield

Magnetism defines the complex and dynamic solar corona. It determines the magnetic loop structure that dominates images of the corona, and stores the energy necessary to drive coronal eruptive phenomena and flare explosions. At great heights the corona transitions into the ever-outflowing solar wind, whose speed and three-dimensional morphology are controlled by the global coronal magnetic field. Coronal magnetism is thus at the heart of any understanding of the nature of the corona, and essential for predictive capability of how the Sun affects the Earth. Coronal magnetometry is a subject that requires a concerted effort to draw together the different strands of research happening around the world. Each method provides some information about the field, but none of them can be used to determine the full 3D field structure in the full volume of the corona. Thus, we need to combine them to understand the full picture. The purpose of this Frontiers Research Topic on Coronal Magnetometry is to provide a forum for comparing and

coordinating these research methods, and for discussing future opportunities.

Creation Care and the Gospel Columbia University Press

In this book 60 authors from many disciplines and from 18 countries on five continents examine in ten parts: Moving towards Sustainability Transition; Aiming at Sustainable Peace; Meeting Challenges of the 21st Century: Demographic Imbalances, Temperature Rise and the Climate–Conflict Nexus; Initiating Research on Global Environmental Change, Limits to Growth, Decoupling of Growth and Resource Needs; Developing Theoretical Approaches on Sustainability and Transitions; Analysing National Debates on Sustainability in North America; Preparing Transitions towards a Sustainable Economy and Society, Production and Consumption and Urbanization; Examining Sustainability Transitions in the Water, Food and Health Sectors from Latin American and European Perspectives; Preparing Sustainability Transitions in the Energy Sector; and Relying on Transnational, International, Regional and National Governance for Strategies and Policies Towards Sustainability Transition. This book is based on workshops held in Mexico (2012) and in the US (2013), on a winter school at Chulalongkorn University, Thailand (2013), and on commissioned chapters. The workshop in Mexico and the publication were supported by two grants by the German Foundation for Peace Research (DSF). All texts in this book were peer-reviewed by scholars from all parts of the world.

Next Generation Science Standards Wipf and Stock Publishers

This comprehensive handbook gives a fully updated guide to lasers and laser technologies, including the complete range of their technical applications. This third volume covers modern applications in engineering and technology, including all new and updated case studies spanning telecommunications and data storage to medicine, optical measurement, defense and security, nanomaterials processing and characterization. Key Features: • Offers a complete update of the original, bestselling work, including many brand-new chapters. • Deepens the introduction to fundamentals, from laser design and fabrication to host matrices for solid-state lasers, energy level diagrams, hosting materials, dopant energy levels, and lasers based on nonlinear effects. • Covers new laser types, including quantum cascade lasers, silicon-based lasers, titanium sapphire lasers, terahertz

lasers, bismuth-doped fiber lasers, and diode-pumped alkali lasers. • Discusses the latest applications, e.g., lasers in microscopy, high-speed imaging, attosecond metrology, 3D printing, optical atomic clocks, time-resolved spectroscopy, polarization and profile measurements, pulse measurements, and laser-induced fluorescence detection. • Adds new sections on laser materials processing, laser spectroscopy, lasers in imaging, lasers in environmental sciences, and lasers in communications. This handbook is the ideal companion for scientists, engineers, and students working with lasers, including those in optics, electrical engineering, physics, chemistry, biomedicine, and other relevant areas.

The Growing Threat to Air Force Mission-Critical Electronics Lulu.com

World Economic Forum Founder and Executive Chairman Klaus Schwab offers a practical companion and field guide to his previous book, *The Fourth Industrial Revolution*. Today, technology is changing everything--how we relate to one another, the way we work, how our economies and governments function, and even what it means to be human. One need not look hard to see how the incredible advances in artificial intelligence, cryptocurrencies, biotechnologies, and the internet of things are transforming society in unprecedented ways. But the Fourth Industrial Revolution is just beginning, says Schwab. And at a time of such tremendous uncertainty and such rapid change, he argues it's our actions as individuals and leaders that will determine the trajectory our future will take. We all have a responsibility - as citizens, businesses, and institutions - to work with the current of progress, not against it, to build a future that is ethical, inclusive, sustainable and prosperous. Drawing on contributions from 200 top experts in fields ranging from machine learning to geengineering to nanotechnology, to data ethics, Schwab equips readers with the practical tools to leverage the technologies of the future to leave the world better, safer, and more resilient than we found it.

Dispatches from the New American Shore Frontiers Media SA

First published in 1922 and based on lectures delivered in May 1921, Albert Einstein's *The Meaning of Relativity* offered an overview and explanation of the then new and controversial theory of relativity. The work would go on to become a monumental classic, printed in numerous editions and

translations worldwide. Now, *The Formative Years of Relativity* introduces Einstein's masterpiece to new audiences. This beautiful volume contains Einstein's insightful text, accompanied by important historical materials and commentary looking at the origins and development of general relativity. Hanoch Gutfreund and Jürgen Renn provide fresh, original perspectives, placing Einstein's achievements into a broader context for all readers. In this book, Gutfreund and Renn tell the rich story behind the early reception, spread, and consequences of Einstein's ideas during the formative years of general relativity in the late 1910s and 1920s. They show that relativity's meaning changed radically throughout the nascent years of its development, and they describe in detail the transformation of Einstein's work from the esoteric pursuit of one individual communicating with a handful of colleagues into the preoccupation of a growing community of physicists, astronomers, mathematicians, and philosophers. This handsome edition quotes extensively from Einstein's correspondence and reproduces historical documents such as newspaper articles and letters. Inserts are featured in the main text giving concise explanations of basic concepts, and short biographical notes and photographs of some of Einstein's contemporaries are included. The first-ever English translations of two of Einstein's popular Princeton lectures are featured at the book's end.

Social Ecology in the Digital Age Emerald Group Publishing
Commercially significant amounts of crude oil and natural gas lie under the continental shelf of the United States. Advances in locating deposits, and improvements in drilling and recovery technology, have made it technically and economically feasible to extract these resources under harsh conditions. But extracting these offshore petroleum resources involves the possibility, however remote, of oil spills, with resulting damage to the ocean and the coastline ecosystems and risks to life and limb of those

performing the extraction. The environmental consequences of an oil spill can be more severe underwater than on land because sea currents can quickly disperse the oil over a large area and, thus, cleanup can be problematic. Bolted connections are an integral feature of deep-water well operations. *High-Performance Bolting Technology for Offshore Oil and Natural Gas Operations* summarizes strategies for improving the reliability of fasteners used in offshore oil exploration equipment, as well as best practices from other industrial sectors. It focuses on critical bolting—bolts, studs, nuts, and fasteners used on critical connections.

Religion and Higher Education in Europe and North America
National Academies Press

From the Foreword: "The authors of the chapters in this book are the pioneers who will explore the exascale frontier. The path forward will not be easy... These authors, along with their colleagues who will produce these powerful computer systems will, with dedication and determination, overcome the scalability problem, discover the new algorithms needed to achieve exascale performance for the broad range of applications that they represent, and create the new tools needed to support the development of scalable and portable science and engineering applications. Although the focus is on exascale computers, the benefits will permeate all of science and engineering because the technologies developed for the exascale computers of tomorrow will also power the petascale servers and terascale workstations of tomorrow. These affordable computing capabilities will empower scientists and engineers everywhere." — Thom H. Dunning, Jr., Pacific Northwest National Laboratory and University of Washington, Seattle, Washington, USA "This comprehensive summary of applications targeting Exascale at the three DoE labs is a must read." — Rio Yokota, Tokyo Institute of Technology, Tokyo, Japan "Numerical simulation is now a need in many fields of science, technology, and industry. The complexity of the

simulated systems coupled with the massive use of data makes HPC essential to move towards predictive simulations. Advances in computer architecture have so far permitted scientific advances, but at the cost of continually adapting algorithms and applications. The next technological breakthroughs force us to rethink the applications by taking energy consumption into account. These profound modifications require not only anticipation and sharing but also a paradigm shift in application design to ensure the sustainability of developments by guaranteeing a certain independence of the applications to the profound modifications of the architectures: it is the passage from optimal performance to the portability of performance. It is the challenge of this book to demonstrate by example the approach that one can adopt for the development of applications offering performance portability in spite of the profound changes of the computing architectures." — Christophe Calvin, CEA, Fundamental Research Division, Saclay, France "Three editors, one from each of the High Performance Computer Centers at Lawrence Berkeley, Argonne, and Oak Ridge National Laboratories, have compiled a very useful set of chapters aimed at describing software developments for the next generation exa-scale computers. Such a book is needed for scientists and engineers to see where the field is going and how they will be able to exploit such architectures for their own work. The book will also benefit students as it provides insights into how to develop software for such computer architectures. Overall, this book fills an important need in showing how to design and implement algorithms for exascale architectures which are heterogeneous and have unique memory systems. The book discusses issues with developing user codes for these architectures and how to address these issues including actual coding examples.' — Dr. David A. Dixon, Robert Ramsay Chair, The University of Alabama, Tuscaloosa, Alabama, USA

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