

Energy Deloitte Us

Synergistic Design of Sustainable Built Environments introduces and illustrates a novel systems approach that fosters both design excellence and a leap toward a more biocentric (ecologically sustainable) design paradigm. The book provides a deeper understanding of the theories and principles of biocentric design and offers detailed descriptions of the synergistic design process of integrating theories and principles into practice. It also presents extensive thermal and visual built environment design strategies, along with qualitative and quantitative information that designers can use to generate feasible solutions in response to varying climate and occupant comfort. Features: Examines the principles and practices of the synergistic design (a fusion of anthropocentric and biocentric) of sustainable built environments and how they relate to practical applications. Presents climatic data and its analysis along with sun-path diagrams for numerous cities to aid in the design of sustainable built environments in multiple regional contexts. Includes numerous case studies of sustainable built environments in varying climatic zones. Explains how renewable energy (solar, wind, biomass, geothermal, hydro, fuel cells) can be successfully integrated in the built environment. This forward-thinking and highly illustrated book will be an invaluable reference to all those concerned with sustainable built environments and related architectural issues.

The oil and gas industry is at a crossroads. Recent low prices, rapidly growing alternative fuels like renewables,

the permanent swing from peak oil to super abundance, shifting consumer preferences, and global pressures to decarbonize suggest a challenged industry for the foreseeable future. Digital advances offer ways to lower costs of production, improve productivity, reduce carbon emissions, and regain public confidence. A wait-and-see attitude to digital innovation has failed many industries already, and the leaders of oil and gas urgently need guidance on how digital both disrupts and enhances their industry. Written by the world's leading experts on the intersection of digital technologies and the oil and gas industry, *Bits, Bytes, and Barrels* sets out the reasons why adoption is slow, describes the size and scale of both the opportunity and the threat from digital, identifies the key digital technologies and the role that they play in a digital future, and recommends a set of actions for leaders to take to accelerate the adoption of digital in the business. Providing an independent and expert perspective, *Bits, Bytes, and Barrels* addresses the impacts of digital across the breadth of the industry--from onshore to offshore, from upstream to midstream to integrated--and outlines a roadmap to help the decision-makers at all levels of the industry take meaningful action toward promising and rewarding digital adoption. The New York Times bestselling, groundbreaking investigation of how the global elite's efforts to "change the world" preserve the status quo and obscure their role in causing the problems they later seek to solve. An essential read for understanding some of the egregious abuses of power that dominate today's news. Former New York Times columnist Anand Giridharadas takes us

into the inner sanctums of a new gilded age, where the rich and powerful fight for equality and justice any way they can--except ways that threaten the social order and their position atop it. We see how they rebrand themselves as saviors of the poor; how they lavishly reward "thought leaders" who redefine "change" in winner-friendly ways; and how they constantly seek to do more good, but never less harm. We hear the limousine confessions of a celebrated foundation boss; witness an American president hem and haw about his plutocratic benefactors; and attend a cruise-ship conference where entrepreneurs celebrate their own self-interested magnanimity. Giridharadas asks hard questions: Why, for example, should our gravest problems be solved by the unelected upper crust instead of the public institutions it erodes by lobbying and dodging taxes? He also points toward an answer: Rather than rely on scraps from the winners, we must take on the grueling democratic work of building more robust, egalitarian institutions and truly changing the world. A call to action for elites and everyday citizens alike.

Water is intricately linked with food security, energy security, and sustainable development. As the world is moving towards sustainable development goals, it is critical to recognize the role of water in attaining these goals. The Water-Energy-Food Nexus draws attention to the complex and interrelated nature of global resource systems and forces us to think about how a decision in one sector impacts other interlinked sectors as well. This book looks at the three dimensions of sustainable developmentenvironment, economics and society – and

how water is linked with them and explores the nexus approach as a framework to look at the issues and identify solutions.

The Power Grid: Smart, Secure, Green and Reliable offers a diverse look at the traditional engineering and physics aspects of power systems, also examining the issues affecting clean power generation, power distribution, and the new security issues that could potentially affect the availability and reliability of the grid. The book looks at growth in new loads that are consuming over 1% of all the electrical power produced, and how combining those load issues of getting power to the regions experiencing growth in energy demand can be addressed. In addition, it considers the policy issues surrounding transmission line approval by regulators. With truly multidisciplinary content, including failure analysis of various systems, photovoltaic, wind power, quality issues with clean power, high-voltage DC transmission, electromagnetic radiation, electromagnetic interference, privacy concerns, and data security, this reference is relevant to anyone interested in the broad area of power grid stability. Discusses state-of-the-art trends and issues in power grid reliability Offers guidance on purchasing or investing in new technologies Includes a technical document relevant to public policy that can help all stakeholders understand the technical issues facing a green, secure power grid

If you only read one book on the future of work, *Work Disrupted: Opportunity, Resilience, and Growth in the Accelerated Future of Work* should be that book. The future of work swept in sooner than expected,

accelerated by Covid-19, creating an urgent need for new maps, new mindsets, new strategies-- and most importantly, a trusted guide to take us on this journey. That guide is Jeff Schwartz. A founding partner of Deloitte Consulting's Future of Work practice, Schwartz brings clarity, humor, wisdom, and practical advice to the future of work, a topic surrounded by misinformation, fear, and confusion. With a fundamental belief in the power of human innovation and creativity, Schwartz presents the key issues, critical choices, and potential pitfalls that must be on everyone's radar. If you're anxious about robots taking away your job in the future, you will take comfort in the realistic perspective, fact-based insights, and practical steps Schwartz offers. If you're not sure where to even begin to prepare, follow his level-headed advice and easy-to-follow action plans. If you're a business leader caught between keeping up, while also being thoughtful about the next moves, you will appreciate the playbook directed at you. If you're wondering how Covid-19 will change how and where you will work, *Work Disrupted* has you covered. Written in a conversational style by Schwartz, with Suzanne Riss, an award-winning journalist and book author, *Work Disrupted* offers a welcome alternative to books on the topic that lack a broad perspective or dwell on the problems rather than offer solutions. Timely and insightful, the book includes the impact of Covid-19 on our present and future work. Interviews with leading thinkers on the future of work offer additional perspectives and guidance. Cartoons created for the book by leading business illustrator Tom Fishburne bring

to life the reader's journey and the complex issues surrounding the topic. Told from the perspective of an economist, management advisor, and social commentator, *Work Disrupted* offers hope--and practical advice--exploring such topics as: How we frame what lies ahead is a critical navigational tool. Discover the signposts that can serve as practical guides for individuals who have families to support, mortgages to pay, and want to stay gainfully employed no matter what the future holds. The importance of recognizing the rapidly evolving opportunities in front of us. Learn how to build resilience—in careers, organizations, and leaders—for what lies ahead. Why exploring new mental models helps us discover the steps we need to take to thrive. Individuals can decide how to protect their livelihood while businesses and public institutions can consider how they can lead and support workforces to thrive in twenty-first-century careers and work. "Jeff's marvelous book is a roadmap for the new world of work with clear signposts. His insights will help readers discover opportunities, take action, and find hope in uncertain times. The ideas are fresh, beautifully crafted, and immediately applicable. This is not only a book to be read, but savored and used." —Dave Ulrich, Rensis Likert Professor, Ross School of Business, University of Michigan; Partner, the RBL Group; Co-author *Reinventing the Organization*

Digital transformation is reshaping the business arena as new, successful digital business models are increasing agility and presenting better ways to handle business than the traditional alternatives. Industry 4.0 affects

everything in our daily lives and is blurring the line between the physical, the biological, and the digital. This created an environment where technology and humans are so closely integrated that it is impacting every activity within the organizations. Specifically, contracting processes and procedures are challenged to align with the new business dynamics as traditional contracts are no longer fitting today's agile and continuously changing environments. Businesses are required to facilitate faster, more secure, soft, and real-time transactions while protecting stakeholders' rights and obligations. This includes agile contracts which are dynamically handling scope changes, smart contracts that can automate rule-based functions, friction-less contracts that can facilitate different activities, and opportunity contracts that looks toward the future. Innovative and Agile Contracting for Digital Transformation and Industry 4.0 analyzes the consequences, benefits, and possible scenarios of contract transformation under the pressure of new technologies and business dynamics in modern times. The chapters cover the problems, issues, complications, strategies, governance, and risks related to the development and enforcement of digital transformation contracting practices. While highlighting topics in the area of digital transformation and contracting such as artificial intelligence, digital business, emerging technologies, and blockchain, this book is ideally intended for business, engineering, and technology practitioners and policy makers, along with practitioners, stakeholders, researchers, academicians, and students interested in understanding the scope,

complexity, and importance of innovative contracts and agile contracting.

Interest in biomass energy resources from forests, farms and other sources has been rapidly increasing in recent years because of growing concern with reducing carbon dioxide emissions and developing alternatives to increasingly scarce, expensive and insecure oil supplies.

The uniqueness of this book is its coverage of biomass energy markets in the US from an economic as well as technical perspective. Existing books typically focus on single markets or technical aspects at the exclusion of economics, and have given greater coverage to biomass energy outside the US. This edited collection has three main parts. Part One provides a historical overview of forest biomass energy use in the US; the major technologies, economics, market prospects, and policies. Part Two presents forest biomass energy assessments, including life cycle and sustainability perspectives, and Part Three includes five sets of regional case studies.

After reviewing the history of wood energy use in the US and technology options, the book shows that forests could displace sixteen per cent of domestic transportation fuel use in 2030.

Renewable Energy from Forest Resources in the United States includes a Foreword from Chris Flavin, President of the Worldwatch Institute.

Bits, Bytes, and Barrels
The Digital Transformation of Oil and Gas
Madcann Press

This book provides a comprehensive introduction to different elements of smart city infrastructure - smart energy, smart water, smart health, and smart transportation - and how they

work independently and together. Theoretical development and practical applications are presented, along with related standards, recommended practices, and professional guidelines. Throughout the book, diagrams and case studies are provided that demonstrate the systems presented, and extensive use of scenarios helps readers better grasp how smart grids, the Internet of Things, big data analytics, and trading models can improve road safety, healthcare, smart water management, and a low-carbon economy. A must-read for practicing engineers, consultants, regulators, utility operators, and environmentalists involved in smart city development, the book will also appeal to city planners and designers, as well as upper-level undergraduate and graduate students studying energy, environmental science, technology, economics, signal processing, information science, and power engineering.

Offers a look at the power of collaboration, defining eight archetypes of leaders and followers and then explaining how readers can take different cases of successful collective behavior and apply them to their own organizations.

"This guide can be downloaded from: www.eere.energy.gov/emp/technologies/renewable%5Fpurchasepower.cfm, www.epa.gov/greenpower/buygreenpower.htm, www.thegreenpowergroup.org/publications.html, www.resource-solutions.org."--Verso. t.p.

The blueprint for an inspiring regenerative economy that avoids collapse and works for people and the planet.

Humanity is in a race with catastrophe. Is the future one of global warming, 65 million migrants fleeing failed states, soaring inequality, and grid-locked politics? Or one of empowered entrepreneurs and innovators building a world that works for everyone? While the specter of collapse looms large, *A Finer Future* demonstrates that humanity has a chance – just – to thread the needle of sustainability and build

a regenerative economy through a powerful combination of enlightened entrepreneurialism, technology, and innovative policy. The authors – world leaders in business, economics, and sustainability – gather the evidence, outline the principles of a regenerative economy, and detail a policy roadmap to achieving it, including: Transforming finance and corporations Reimagining energy, agriculture, and the nature of how we work Enhancing human well-being Delivering a world that respects ecosystems and human community. Charting the course to a regenerative economy is the most important work facing humanity and *A Finer Future* provides the essential blueprint for business leaders, entrepreneurs, environmentalists, politicians, policymakers, and others working to create a world that works for people and the planet.

How companies can adapt in an era of continuous disruption: a guide to responding to such acute crises as COVID-19. When COVID-19 hit, businesses had to respond almost instantaneously--shifting employees to remote work, repairing broken supply chains, keeping pace with dramatically fluctuating customer demand. They were forced to adapt to a confluence of multiple disruptions inextricably linked to a longer-term, ongoing digital disruption. This book shows that companies that use disruption as an opportunity for innovation emerge from it stronger. Companies that merely attempt to "weather the storm" until things go back to normal (or the next normal), on the other hand, miss an opportunity to thrive. The authors, all experts on business and technology strategy, show that transformation is not a one-and-done event, but a continuous process of adapting to a volatile and uncertain environment. Drawing on five years of research into digital disruption--including a series of interviews with business leaders conducted during the COVID-19 crisis--they offer a framework for understanding disruption and tools for

navigating it. They outline the leadership traits, business principles, technological infrastructure, and organizational building blocks essential for adapting to disruption, with examples from real-world organizations. Technology, they remind readers, is not an end in itself, but enables the capabilities essential for surviving an uncertain future: nimbleness, scalability, stability, and optionality.

An informed modern plan for post-2020 American foreign policy that avoids the opposing dangers of retrenchment and overextension Russia and China are both believed to have “grand strategies”—detailed sets of national security goals backed by means, and plans, to pursue them. In the United States, policy makers have tried to articulate similar concepts but have failed to reach a widespread consensus since the Cold War ended. While the United States has been the world’s prominent superpower for over a generation, much American thinking has oscillated between the extremes of isolationist agendas versus interventionist and overly assertive ones. Drawing on historical precedents and weighing issues such as Russia’s resurgence, China’s great rise, North Korea’s nuclear machinations, and Middle East turmoil, Michael O’Hanlon presents a well-researched, ethically sound, and politically viable vision for American national security policy. He also proposes complementing the Pentagon’s set of “4+1” pre-existing threats with a new “4+1”: biological, nuclear, digital, climatic, and internal dangers.

The debate over how the energy industry should develop in the United States and beyond has reached a critical point. The search for cleaner and more sustainable fuel sources continues, but with the United States' proposed withdrawal from the Paris climate accord and the expansion of the Keystone XL pipeline approved by the Trump administration, the issue of how America's energy policy should develop in

the coming years is more complicated than ever. Readers will gain a better understanding of the factual information on the energy industry and learn the key arguments in the debate surrounding it.

The global market for oil and gas resources is rapidly changing. Three major trends—the rise of new consumers, the increasing influence of state players, and concerns about climate change—are combining to challenge existing regulatory structures, many of which have been in place for a half-century. Global Energy Governance analyzes the energy market from an institutionalist perspective and offers practical policy recommendations to deal with these new challenges. Much of the existing discourse on energy governance deals with hard security issues but neglects the challenges to global governance. Global Energy Governance fills this gap with perspectives on how regulatory institutions can ensure reliable sources of energy, evaluate financial risk, and provide emergency response mechanisms to deal with interruptions in supply. The authors bring together decisionmakers from industry, government, and civil society in order to address two central questions: •What are the current practices of existing institutions governing global oil and gas on financial markets? •How do these institutions need to adapt in order to meet the challenges of the twenty-first century? The resulting governance-oriented analysis of the three interlocking trends also provides the basis for policy recommendations to improve global regulation. Contributors include Thorsten Benner, Global Public Policy Institute, Berlin; William Blyth, Chatham

House, Royal Institute for International Affairs, London; Albert Bressand, School of International and Public Affairs, Columbia University; Dick de Jong, Clingendael International Energy Programme; Ralf Dickel, Energy Charter Secretariat; Andreas Goldthau, Central European University, Budapest, and Global Public Policy Institute, Berlin; Enno Harks, Global Public Policy Institute, Berlin; Wade Hoxtell, Global Public Policy Institute, Berlin; Hillard Huntington, Energy Modeling Forum, Stanford University; Christine Jojarth, Center on Democracy, Development, and the Rule of Law, Stanford University; Frederic Kalinke, Department of Politics and International Relations, Oxford University; Wilfrid L. Kohl, School of Advanced International Studies, Johns Hopkins University; Jamie Manzer, Global Public Policy Institute, Berlin; Amy Myers Jaffe, James A. Baker Institute for Public Policy, Rice University; Yulia Selivanova, Energy Charter Secretariat; Tom Smeenk, Clingendael International Energy Programme; Ricardo Soares de Oliveira, Department of Politics and International Relations, Oxford University; Ronald Soligo, Rice University; Joseph A. Stanislaw, Deloitte LLP and The JAStanislaw Group, LLC; Coby van der Linde, Clingendael International Energy Programme; Jan Martin Witte, Global Public Policy Institute, Berlin; Simonetta Zarrilli, Division on International Trade and Commodities, United Nations Conference on Trade and Development

A guide to putting cognitive diversity to work Ever wonder what it is that makes two people click or clash? Or why some groups excel while others fumble? Or how you, as a leader, can make or break team potential?

Business Chemistry holds the answers. Based on extensive research and analytics, plus years of proven success in the field, the Business Chemistry framework provides a simple yet powerful way to identify meaningful differences between people's working styles. Who seeks possibilities and who seeks stability? Who values challenge and who values connection? Business Chemistry will help you grasp where others are coming from, appreciate the value they bring, and determine what they need in order to excel. It offers practical ways to be more effective as an individual and as a leader. Imagine you had a more in-depth understanding of yourself and why you thrive in some work environments and flounder in others. Suppose you had a clearer view on what to do about it so that you could always perform at your best. Imagine you had more insight into what makes people tick and what ticks them off, how some interactions unlock potential while others shut people down. Suppose you could gain people's trust, influence them, motivate them, and get the very most out of your work relationships. Imagine you knew how to create a work environment where all types of people excel, even if they have conflicting perspectives, preferences and needs. Suppose you could activate the potential benefits of diversity on your teams and in your organizations, improving collaboration to achieve the group's collective potential. Business Chemistry offers all of this--you don't have to leave it up to chance, and you shouldn't. Let this book guide you in creating great chemistry!

Here is a no-nonsense guide to how you, the average American, can easily make clean energy and energy

efficiency part of your daily life, saving money, making money, and weaning your community off fossil fuels in the process. Energy guru Brian F. Keane walks you through the cost-benefit trade-offs of the exciting new technologies and introduces you to revolutionary clean-energy products on the horizon, making the ins and outs of renewable energy easily accessible. Featuring compelling, real-life stories that bring clean-energy problems and solutions from 30,000 feet to street level, *Green Is Good* walks you that last mile from awareness to adoption. It demonstrates how all of us can seize the opportunity and profit from it. Keane also discusses the challenges that clean energy faces, laying out time-tested strategies to overcome them. A renewable energy future isn't just good for the environment; it's good for the economy, and *Green Is Good* will show you how—before it's too late.

Waste has plagued almost every industrial-age firm for the past century. In this powerfully argued alternative to conventional cost management thinking, experts H. Thomas Johnson and Anders Bröms assert that any company can avoid the waste that is generated through excessive operating costs in the short run and excessive losses from market instability in the long run. To gain more secure levels of profitability, management must simply change how it thinks about work and how it organizes work. *Profit Beyond Measure* details how two extremely profitable manufacturers, Toyota and the Swedish truck maker Scania, have rejected the traditional mechanistic mindset of managing by results that generates waste. Johnson and Bröms explain how

Toyota and Scania achieve their legendary cost advantage through a revolutionary concept they call managing by means (MBM). Instead of being driven to meet preconceived accounting targets, the production systems of Toyota and Scania are governed by the three precepts that guide all living systems: self-organization, interdependence, and diversity. Amid a wealth of new insights into Toyota's vaunted system, Johnson and Bröms introduce the tools of MBM to show how design, production, and profitability analysis are done to customer order. They demonstrate that by following the principles that emulate life systems, even a lean and profitable company can organize work to greatly lessen its long-term earnings instability and sharply reduce its short-run operating costs. Scania has achieved sixty-five years of financial stability and longevity in the face of fierce competition. Toyota has amassed a market value since 1988 that has rivaled -- or sometimes surpassed -- the American "Big Three" automakers combined. The principles that Johnson and Bröms set forth in *Profit Beyond Measure* can guarantee the same richer, longer life to any company that applies them.

Energy Justice: US and International Perspectives is a pioneering analysis of energy law and policy through the framework of energy justice. While climate change has triggered unprecedented investment in renewable energy, the concept of energy justice and its practical application to energy law and policy remain under-theorized. This volume breaks new ground by examining a range of energy justice regulatory challenges from the perspective of international law, US law, and foreign

domestic law. The book illuminates the theory of energy justice while emphasizing practical solutions that hasten the transition from fossil fuels and address the inequities that plague energy systems.

After decades of stability, power systems are currently undergoing a rapid transition - demand patterns are evolving, while supply sources are shifting to renewable energies at an accelerated pace. This book, written by an experienced energy professional, combines the various aspects of supply and demand developments to offer a unified perspective. It highlights the key changes that the world of electric utilities and power systems will face in the coming decade, as well as the major challenges that will emerge as a result. Supplemented by a wealth of global and local data, the book describes the major patterns that affect both supply and demand, and provides a quantified analysis of their impacts on power system grids and markets. Lastly, it explores the new technologies that can enable the success of these transformations.

Project risk management is regarded as a necessary dimension of effective project delivery. Current practices tend to focus on tangible issues such as late delivery of equipment or the implications of technology. This book introduces a framework to identify emergent behavior-centric intangible risks and the conditions that initiate them. *Decision Making in Risk Management: Quantifying Intangible Risk Factors in Projects* identifies the quantitative measures to assess behavior-induced risks by presenting a framework that limits the interpersonal tension of addressing behavioral risks. Included in the

book is an illustrative case study from the oil and gas sector that demonstrates the use of the framework. The missing dimension of behavior-centric intangible risk factors in current risk identification is explored. The book goes on to cover management processes, providing a systematic analytical approach to mitigate subjectivity when addressing behavioral risks in projects. This book is useful to those working in the fields of Project Management, Systems Engineering, Risk Management, and Behavioral Science.

"Surging sea levels are inundating the coasts."

"Hurricanes and tornadoes are becoming fiercer and more frequent." "Climate change will be an economic disaster." You've heard all this presented as fact. But according to science, all of these statements are profoundly misleading. When it comes to climate change, the media, politicians, and other prominent voices have declared that "the science is settled." In reality, the long game of telephone from research to reports to the popular media is corrupted by misunderstanding and misinformation. Core questions—about the way the climate is responding to our influence, and what the impacts will be—remain largely unanswered. The climate is changing, but the why and how aren't as clear as you've probably been led to believe. Now, one of America's most distinguished scientists is clearing away the fog to explain what science really says (and doesn't say) about our changing climate. In *Unsettled: What Climate Science Tells Us, What It Doesn't, and Why It Matters*, Steven Koonin draws upon his decades of experience—including as a top science advisor to the

Obama administration—to provide up-to-date insights and expert perspective free from political agendas.

Fascinating, clear-headed, and full of surprises, this book gives readers the tools to both understand the climate issue and be savvier consumers of science media in general. Koonin takes readers behind the headlines to the more nuanced science itself, showing us where it comes from and guiding us through the implications of the evidence. He dispels popular myths and unveils little-known truths: despite a dramatic rise in greenhouse gas emissions, global temperatures actually decreased from 1940 to 1970. What's more, the models we use to predict the future aren't able to accurately describe the climate of the past, suggesting they are deeply flawed. Koonin also tackles society's response to a changing climate, using data-driven analysis to explain why many proposed "solutions" would be ineffective, and discussing how alternatives like adaptation and, if necessary, geoengineering will ensure humanity continues to prosper. *Unsettled* is a reality check buoyed by hope, offering the truth about climate science that you aren't getting elsewhere—what we know, what we don't, and what it all means for our future.

This book provides a comprehensive exploration of some of the most critical issues regarding the EU's Energy Union policy. Applied European energy policies face a number of challenges ranging from the geopolitics of energy and energy regulation, to climate change, advancing renewable and gas technologies, and consumer empowerment structures. This book takes a multi-dimensional look into some of these vital issues

regarding the European energy sector with a special focus on the effects the Energy Union policy has in two sensitive regional systems, Southeastern Europe and the Eastern Mediterranean. Energy, being by definition a multi-disciplinary field, presents a challenge for readers of any specific disciplinary background that need to grasp an overall understanding of the various aspects of this exciting sector. This books objective is to offer the opportunity for readers to get a quality, hands-on overview of the Energy Union by the professionals and academics that interact with it on a daily basis. Michalis Mathioulakis is an Energy Strategy Analyst and the Academic Director of the Greek Energy Forum. He is a research associate at the Institute of International, European and Defence Analyses of the University of Macedonia in Thessaloniki, where he is responsible for the analysis of the energy sector in MENA and the Eastern Mediterranean. He has substantial working experience in the financial sector as a broker and analyst, as well as the private education sector, teaching Finance and Risk Analysis in Executive MBA programs. He is currently providing consulting services regarding energy strategy and energy regulation for Law firms and Consulting firms associated with the energy sector. The second edition of *Alternative Energy: Political, Economic, and Social Feasibility* builds on first edition material, but with significant updates on dramatic changes within the renewable energy sector over the last decade. The book discusses the basic technical aspects of major renewable energy systems and technological developments; the impact of politics on energy policy

using contemporary theories of public policy (such as, Advocacy Coalition Framework (ACF), Punctuated Equilibrium (PE), Narrative Policy Framework, and Policy Diffusion), as well as discussing the evolution of the social feasibility of renewable energy. Alternative energy solutions, such as nuclear power, are expanded to discuss nuclear power developments and feasibility in the post-Fukushima policy environment. International commitment to renewable energy is also addressed. There are few existential challenges more serious in the twenty first century than energy transition. As current trends in energy production prove unsustainable for the environment, energy security, and economic development, innovation becomes imperative. Yet, with technological challenges, come legal challenges. Zillman, Godden, Paddock, and Roggenkamp assemble a team of experts in their field to debate how the law may have to adapt to changes in the area. What regulatory approach should be used? How do we deal with longer-term investment horizons and so called 'stranded assets' such as coal-fired power stations? And can a form of energy justice be achieved which encompasses human rights, sustainable development goals, and the eradication of energy poverty? With a concept as unwieldy as energy innovation, it is high time for a text tackling changes which are dynamic and diverse across different communities, and which provides a thorough examination of the legal ramifications of the most recent technological changes. This book which be of vital importance to lawyers, policy-makers, economists, and the general reader.

This book builds upon a wide variety of academic and professional resources to offer an in-depth analysis of the nature, causes, and consequences of major business and technology trends of our time. First, prospects for energy, commodities, water, food, and healthcare services are explored. Then, leading business transformations such as the sharing economy, Fourth Industrial Revolution, gig economy, and recent developments in the global economy are analyzed. Finally, innovation and emerging technologies including automation, robotics, connectivity, quantum computing, and new materials and energies are examined and their business implications are discussed. Major Business and Technology Trends Shaping the Contemporary World is a timely and relevant reference for business leaders, managers, students, and all those who are passionate about understanding our rapidly changing world. With the inclusion of access to energy in the sustainable development goals, the role of energy to human existence was finally recognized. Yet, in Africa, this achievement is far from realized. Omorogbe and Order bring together experts in their fields to ask what is stalling progress, examining problems from institutions catering to vested interests at the continent's expense, to a need to develop vigorous financial and fiscal frameworks. The ramifications and complications of energy law are labyrinthine: this volume discusses how energy deficits can burden disabled people, women, and children in excess of their more fortunate counterparts, as well as considering environmental issues, including the delicate balance between the necessity of water for

drinking and cleaning and the use of water in industrial processes. A pivotal work of scholarship, the book poses pressing questions for energy law and international human rights.

THE NEW YORK TIMES BESTSELLER Chasing Daylight is the honest, touching, and ultimately inspirational memoir of former KPMG CEO Eugene O'Kelley, completed in the three-and-a-half months between his diagnosis with brain cancer and his death in September 2005. Its haunting yet extraordinarily hopeful voice reminds us to embrace the fragile, fleeting moments of our lives-the brief time we have with our family, our friends, and even ourselves. This paperback edition features a new foreword by his wife, Corinne O'Kelley and a readers' group guide and questions. "Voicing universal truths . . . shared . . . simply and clearly."-Janet Malin, New York Times "Words to live by."-Kerry Hannon, USA Today "One of the most unexpected and touching books you're likely to read this year."-Edward Nawotka, Bloomberg News "An honest, thought-provoking memoir . . . O'Kelly has many lessons to teach us on how to live."-Steve Powers, Houston Chronicle "[A] well-written and moving book."-TheEconomist.com

Explore a new and effective method for seizing opportunity in the face of uncertainty In Provoke: How Leaders Shape the Future by Overcoming Fatal Human Flaws, renowned strategy consultants and best-selling authors Geoff Tuff and Steven Goldbach deliver an insightful exploration of how people tend to act tentatively in the face of uncertainty and provide the tools

we need to do things differently. Tuff and Goldbach offer up a compelling argument for the proposition that taking a "wait and see" approach is the exact opposite of what helps visionary leaders change the world. Drawing on principles from business and behavioral economics, the book shows readers from all walks of life how to provoke action as a mechanism to advance. In this book you'll discover: An overview of the assortment of cognitive biases which tend to restrain and distort leadership decision making in the face of uncertainty How to recognize the 'phase change' that occurs when an uncertainty resolves from being a question of "if" to being a matter of "when" Five different models of provocation which can be used alone or in combination to anticipate, drive through and exit that phase change in a way that creates the future you desire How true "provocateurs" shake the foundations of their industries, firms, sectors, and governments by overcoming their need for certainty before action Perfect for leaders or aspiring leaders in all walks of life where uncertainty abounds—which is to say, almost everywhere —Provoke will become your go-to guide to overcoming those natural human instincts that keep us frozen in place and prevent us from seizing our opportunities.

Joseph Nye coined the term "soft power" in the late 1980s. It is now used frequently—and often incorrectly—by political leaders, editorial writers, and academics around the world. So what is soft power? Soft power lies in the ability to attract and persuade. Whereas hard power—the ability to coerce—grows out of a country's military or economic might, soft power arises from the

attractiveness of a country's culture, political ideals, and policies. Hard power remains crucial in a world of states trying to guard their independence and of non-state groups willing to turn to violence. It forms the core of the Bush administration's new national security strategy. But according to Nye, the neo-conservatives who advise the president are making a major miscalculation: They focus too heavily on using America's military power to force other nations to do our will, and they pay too little heed to our soft power. It is soft power that will help prevent terrorists from recruiting supporters from among the moderate majority. And it is soft power that will help us deal with critical global issues that require multilateral cooperation among states. That is why it is so essential that America better understands and applies our soft power. This book is our guide.

A Wall Street Journal bestseller and a USA Today Best Book of 2020! Named Energy Writer of the Year for The New Map by the American Energy Society Pulitzer Prize-winning author and global energy expert, Daniel Yergin offers a revelatory new account of how energy revolutions, climate battles, and geopolitics are mapping our future The world is being shaken by the collision of energy, climate change, and the clashing power of nations in a time of global crisis. Out of this tumult is emerging a new map of energy and geopolitics. The "shale revolution" in oil and gas has transformed the American economy, ending the "era of shortage" but introducing a turbulent new era. Almost overnight,

the United States has become the world's number one energy powerhouse. Yet concern about energy's role in climate change is challenging the global economy and way of life, accelerating a second energy revolution in the search for a low-carbon future. All of this has been made starker and more urgent by the coronavirus pandemic and the economic dark age that it has wrought. World politics is being upended, as a new cold war develops between the United States and China, and the rivalry grows more dangerous with Russia, which is pivoting east toward Beijing. Vladimir Putin and China's Xi Jinping are converging both on energy and on challenging American leadership, as China projects its power and influence in all directions. The South China Sea, claimed by China and the world's most critical trade route, could become the arena where the United States and China directly collide. The map of the Middle East, which was laid down after World War I, is being challenged by jihadists, revolutionary Iran, ethnic and religious clashes, and restive populations. But the region has also been shocked by the two recent oil price collapses--and by the very question of oil's future in the rest of this century. A master storyteller and global energy expert, Daniel Yergin takes the reader on an utterly riveting and timely journey across the world's new map. He illuminates the great energy and geopolitical questions in an era of rising political

turbulence and points to the profound challenges that lie ahead.

This study presents options to fully unlock the world's vast solar PV potential over the period until 2050. It builds on IRENA's global roadmap to scale up renewables and meet climate goals.

The electricity sector is facing its toughest test: eliminate carbon emissions while meeting much larger demands for power and adjusting to massive disruptions in its markets, technologies, business models, and policies. Peter Fox-Penner unwinds the industry's fast-moving challenges and makes realistic recommendations for this essential industry. A sustainable path to development has profound consequences for all economic activities and related policies. The mining industry, which provides input to almost every product and service in the world, is highly relevant to the goal of achieving sustainable development in mineral-rich countries and in the global economy. In addition, environmental sustainability is a critical concern for mining companies, whose growth is increasingly affected by climate change. Given the centrality of minerals and metals to our way of living, *Building Resilience: A Green Growth Framework for Mobilizing Mining Investment* investigates the extent to which the mining industry can contribute to green growth. Despite what ought to be a tight nexus of public and private interest in targeted green sector investment,

this report finds that there is a misalignment between mining companies' investment in climate-sensitive production processes, and policy makers' efforts to develop a cohesive green economy framework for industry to navigate. The private and public sectors regard the climate agenda and the development of local economic opportunity as separate matters. Neither industry nor government have yet to effectively leverage their climate imperatives and mandates to seize green growth opportunities. To address this misalignment, this report proposes a framework to help mining companies and governments integrate climate change and local economic opportunity activities. Going further, the report offers examples of projects and policies that support green growth: particularly climate-related activities that create scalable economic value and invest in long-lasting green infrastructure.

While there are many books on blockchains, this guide focuses on blockchain applications for business. The target audience is business students, professionals, and managers who want to learn about the overall blockchain landscape -- the investments, the size of markets, major players and the global reach -- as well as the potential business value of blockchain applications and the challenges that must be overcome to achieve that value. We present use cases and derive action principles for building enterprise blockchain capabilities. Readers

will learn enough about the underlying technologies to speak intelligently to technology experts in the space, as the guide also covers the blockchain protocols, code bases and provides a glossary of terms. We use this guide as the textbook for our undergraduate and graduate Blockchain Fundamentals course at the University of Arkansas. Other professors interested in adopting this guide for instructional purposes are welcome to contact the author for supporting instructional materials.

Innovation principles to bring about meaningful and sustainable growth in your organization Using a list of more than 2,000 successful innovations, including Cirque du Soleil, early IBM mainframes, the Ford Model-T, and many more, the authors applied a proprietary algorithm and determined ten meaningful groupings—the Ten Types of Innovation—that provided insight into innovation. The Ten Types of Innovation explores these insights to diagnose patterns of innovation within industries, to identify innovation opportunities, and to evaluate how firms are performing against competitors. The framework has proven to be one of the most enduring and useful ways to start thinking about transformation. Details how you can use these innovation principles to bring about meaningful—and sustainable—growth within your organization Author Larry Keeley is a world renowned speaker, innovation consultant, and president and co-founder of Doblin, the

innovationpractice of Monitor Group; BusinessWeek named Keeley one of sevenInnovation Gurus who are changing the field The Ten Types of Innovation concept has influenced thousands of executives and companies around the world since its discovery in1998. The Ten Types of Innovation is the first bookexplaining how to implement it.

An easy-to-understand and engaging exploration of the battery's development across history that reveals current technological advances, celebrates the innovators who have led the charge forward, and shows how the electric battery represents the path to a low-carbon future. • Demystifies the electric battery, explains how modern technology has overcome its historic limitations, and presents how this seemingly ordinary technology will enable a new era of sustainability for future generations •

Addresses a topic of growing interest among general readers as electric cars designed to be affordable to the middle class from major manufacturers such as Chevrolet and Nissan are joined by new options from upstart electric vehicle manufacturer Tesla • Written by an Institute for Energy and the Environment research team with the requisite knowledge of energy policy and of science, as well as communication skills, to research and present a compelling narrative on electric batteries past, present, and future

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