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This book highlights topics ranging from green chemistry and engineering to bioremediation, smart technologies, and sustainable business practices. The common threads running through this volume are the need for urgent action, a vision for a sustainable future, and the awareness that solutions must be widely accessible and advance the welfare of all nations, especially in the face of climate change. The authors delineate how we can protect and restore natural ecosystem potential to achieve environmental sustainability. They provide a clear idea of today's environmental challenges and solutions, focus on energy use patterns and the reduction of energy consumption, advocate for increased environmental awareness, and discuss environmental monitoring systems. The book contains many domestic and international case studies and showcases visionary ideas in action to illustrate sustainability principles. This volume provides an in-depth reference for stakeholders from academia, government, and industry on the latest research in environmental sustainability solutions. Inspired by the common wisdom that we do not inherit this Earth from our ancestors but instead borrow it from our children, the authors offer solutions to emergent problems. This research comprises an important contribution to the global effort to build a more sustainable tomorrow.

The concept of circular economy is based on strategies, practices, policies, and technologies to achieve principles related to reusing, recycling, redesigning, repurposing, remanufacturing, refurbishing, and recovering water, waste materials, and nutrients to preserve natural resources. It provides the necessary conditions to encourage economic and social actors to adopt strategies toward sustainability. However, the increasing complexity of sustainability aspects means that traditional engineering and management/economics alone cannot face the new challenges and reach the appropriate solutions. Thus, this book highlights the role of engineering and management in building a sustainable society by developing a circular economy that establishes and protects strong social and cultural structures based on cross-disciplinary knowledge and diverse skills. It includes theoretical justification, research studies, and case studies to provide researchers, practitioners, professionals, and policymakers the appropriate context to work together in promoting sustainability and circular economy thinking. Volume 1, *Circular Economy and Sustainability: Management and Policy*, discusses the content of circular economy principles and how they can be realized in the fields of economy, management, and policy. It gives an outline of the current status and perception of circular economy at the micro-, meso-, and macro-levels to provide a better understanding of its role to achieve sustainability. Volume 2, *Circular Economy and Sustainability: Environmental Engineering*, presents various technological and developmental tolls that emphasize the implementation of these principles in practice (micro-level). It demonstrates the necessity to establish a fundamental connection between sustainable engineering and circular economy. Presents a novel approach linking circular economy concept to environmental engineering and management to promote sustainability goals in modern societies Approaches the topic of production and consumption at both the micro- and macro-levels, integrating principles with practice Offers a range of theoretical and foundational knowledge in addition to case studies that demonstrate the potential impact of circular economy principles on economic and societal progress

With chapters written by experts in their field, this volume advances the understanding of theory and successful practice of marketing and promoting environmental sustainability. Some experts predict that the next big trend in business will involve the green economy. Yet, communicating sustainability to consumers provides a set of challenges for marketers that do not necessarily follow all the rules of other types of marketing communication. In many ways the concept of sustainability challenges the core ideals of promoting consumption. Accordingly, this book identifies for researchers and practitioners the barriers that keep customers from engaging in environmentally sustainable consumption and find ways to overcome those barriers. The book includes topics such cor-

porate advertising strategy related to sustainability, corporate social responsibility advertising, greenwashing, advertising related to values, persuasion and persuasion knowledge in sustainability marketing, social media and sustainability, and advertising and public policy.

The book explains the principles and fundamentals of Green Analytical Chemistry (GAC) and highlights the current developments and future potential of the analytical green chemistry-oriented applications of various solutions. The book consists of sixteen chapters, including the history and milestones of GAC; issues related to teaching of green analytical chemistry and greening the university laboratories; evaluation of impact of analytical activities on the environmental and human health, direct techniques of detection, identification and determination of trace constituents; new achievements in the field of extraction of trace analytes from samples characterized by complex composition of the matrix; "green" nature of the derivatization process in analytical chemistry; passive techniques of sampling of analytes; green sorption materials used in analytical procedures; new types of solvents in the field of analytical chemistry. In addition green chromatography and related techniques, fast tests for assessment of the wide spectrum of pollutants in the different types of the medium, remote monitoring of environmental pollutants, qualitative and comparative evaluation, quantitative assessment, and future trends and perspectives are discussed. This book appeals to a wide readership of the academic and industrial researchers. In addition, it can be used in the classroom for undergraduate and graduate Ph.D. students focusing on elaboration of new analytical procedures for organic and inorganic compounds determination in different kinds of samples characterized by complex matrices composition. Jacek Namieśnik was a Professor at the Department of Analytical Chemistry, Gdańsk University of Technology, Poland. Justyna Płotka-Wasyłka is a teacher and researcher at the same department.

As corporations increasingly recognize the benefits of green marketing, the number of projects with important local environmental, economic, and quality-of-life benefits shall increase. Encouraging the holistic nature of green, moreover, inspires other retailers to push the movement. *Green Marketing as a Positive Driver Toward Business Sustainability* is a collection of innovative research on the methods and applications of integrating environmental considerations into all aspects of marketing. While highlighting topics including green consumerism, electronic banking, and sustainability, this book is ideally designed for industrialists, marketers, professionals, engineers, educators, researchers, and scholars seeking current research on green development in regular movement.

Can China's Belt and Road Initiative (BRI) promote sustainable development, alongside its primary aims of increasing commercial connectivity with China's partners? In discussions of the BRI the focus has tended to be on the implications for infrastructure construction, connectivity, and economic diplomacy. Rather less attention has been paid to its potential impact on sustainability. The initiative has not only set principles to prevent climate change and promote sustainable development, but also pledged to align with the UN's environmental objectives. The contributors to this volume describe and evaluate the consequent policy coordination in the areas of green finance, green energy, and sustainable development in the Belt and Road regions. They examine both the challenges and opportunities of these projects, and the role that Hong Kong can play in supporting their assessment, finance, and implementation. With contributions from authors based in mainland China, Hong Kong, Australia, Qatar, the UK, and the US - with experience in corporate social responsibility, international finance, environmental policy, and international relations - this book presents a thorough and rigorous analysis of the green side of the BRI. A valuable resource for scholars of the BRI and its many implications for China, its partners, and the development of sustainable infrastructure.

Are profits and sustainability compatible? This book brings unique perspectives to this key debate by exploring the history of green entrepreneurship since the nineteenth century, and its spread globally in industries including renewable energy, organic food, natural beauty, ecotourism, recy-

cling, architecture, and finance. The book uses the lens of the extraordinary and often eccentric men and women who defied convention and imagined that business could help save the planet, rather than consume it. The social and religious beliefs that drove many of these individuals are explored as the book looks at how they overcame huge obstacles to execute their strategies. The green entrepreneurs seen here are shown to have created new markets and industries, and driven innovations in sustainable practices, even at times when most consumers and governments marginalized the entire subject. The struggles of early pioneers appear to have been rewarded by the growth of environmental awareness among consumers, business leaders, and others in recent years, but the Earth's environmental health continues to deteriorate. If profits and sustainability have proved challenging to reconcile, the book argues that one reason was how they were both defined.

Colleges and universities are at the forefront of efforts to preserve the earth's resources for future generations. Carbon neutrality, renewable energy sources, green building strategies, and related initiatives require informed and courageous leaders at all levels of higher education. James Martin and James E. Samels have worked closely with college and university presidents, provosts, and trustees to devise best practices that establish sustainable policies and programs in the major areas of institutional operations. While almost seven hundred chief executive officers have signed the American College and University Presidents' Climate Commitment, several thousand have yet to do so. This book identifies four of the most formidable challenges facing these presidents and leadership teams along with solutions to address them: effectively institutionalizing sustainability thinking; developing an efficient, flexible system of sustainability benchmarks; implementing an accountable university budget model; and engaging boards of trustees in the campus sustainability agenda. The volume's contributors, including recognized authorities on sustainability as well as campus executives with broad-ranging experience, consider these challenges and discuss specific action plans, best practices, and emerging trends in sustainability efforts. They offer sustainability solutions for almost every major operational area of campus and consider what sustainability means for colleges and universities—and the legacy of those entrusted with shaping their future. The meaning of sustainability is evolving, and it differs from one campus to the next. This timely and comprehensive volume guides institutional leaders past the myths and misconceptions to the sustainable university.

When generating electronic products, manufacturing enterprises are producing pollution and waste that is harmful to the environment. As a result of this increasing event, green production has become a valuable research topic. *Green Production Strategies for Sustainability* is an essential reference source for the latest empirical research and relevant theoretical frameworks on creating profit through environmentally friendly operating processes. Including coverage on a range of topics such as corporate social responsibility, environmental performance, and green supply chain, this book is ideally designed for managers, professionals, and researchers seeking current research on green production use in sustainability.

The knowledge and innovation meant for knowledge-based economies (KBes) are branded as green knowledge and innovation/ethical human capital, blended with the natural system as modeled by the Quintuple Helix Model of Innovation. However, due to bureaucratic challenges and myths, conventional universities produce knowledge and innovation in the sense of traditional disciplinary knowledge, which are not adequate to meet the goals of sustainable development. This book provides a model for greening a university which in turn can produce green knowledge and innovation in the mainstream knowledge production process. This model, which is based on research, can be adopted by the conventional universities in other regions. Such a process results in providing benefits to stakeholders of the university at the micro-level. At the macro-level, it blends with the other knowledge systems--namely, the natural environment of society, economic system, media-based and culture-based public and civil society, and political system--to create a sustain-

able knowledge economy.

In the midst of climate change, responsible business practices and ecological modernization become essential tools for the promotion of sustainability. Due to the current level of demand for eco-friendly products and services, there is a need for green training and green human resource development to support green creativity and eco-innovation for sustainability. By incorporating green initiatives into human resource practices, organizations can maintain a positive impact on the environment. With a full understanding of sustainable business practices, positive impacts on the environmental management field become easier to produce. Human Resource Management Practices for Promoting Sustainability is a pivotal reference source that explores the incorporation of green initiatives into all aspects of human resource management practices in a variety of industries. The book delivers a discussion on green human capital, collective green intelligence, and competencies that are essential to cope with the challenges in Industry 4.0. It also provides a basis for green recruitment and selection processes as a way of promoting pro-environmental behavior in the labor markets. While highlighting a broad range of topics including employee relations, knowledge management, and recruitment, this book is ideally designed for executives, entrepreneurs, human resource managers, academicians, researchers, and students. The book is also suitable for conventional and corporate universities looking to meet sustainable development goals as well as policymakers as it provides a guideline in designing and implementing green creativity and eco-innovation based on a wide range of global issues confronting sustainability in the Fourth Industrial Revolution.

The protection of the environment and economic growth are two important aspects of modern sustainability initiatives. By placing these two together, a competitive advantage is developed by utilizing green factors with investing. Sustainable Entrepreneurship and Investments in the Green Economy is an essential reference publication for the latest research on green entrepreneurship and its impacts on investment activity within sustainable development and competitive markets. Featuring coverage on a broad range of topics and perspectives such as contemporary enterprises, global feeding, and waste management, this book is ideally designed for practitioners, students, and academicians seeking current research on green entrepreneurship and investments.

This book introduces the concept of novel process windows, focusing on cost improvements, safety, energy and eco-efficiency throughout each step of the process. The first part presents the new reactor and process-related technologies, introducing the potential and benefit analysis. The core of the book details scenarios for unusual parameter sets and the new holistic and systemic approach to processing, while the final part analyses the implications for green and cost-efficient processing. With its practical approach, this is invaluable reading for those working in the pharmaceutical, fine chemicals, fuels and oils industries.

Cities, economies, and societies around the world must address the urgent global challenges such as climate change or the transition towards a greener and digital economy. It is important that economies are transformed into resource-efficient, competitive, and resilient ones. In the context of rapid change, transformative technologies like artificial intelligence (AI), blockchain, or the internet of things (IoT) play a key role in this digital transition across a wide range of areas. The Handbook of Research on Building Greener Economics and Adopting Digital Tools in the Era of Climate Change discusses global challenges like the transition towards a circular, greener, and digital economy. It proposes actions to advance the agenda towards climate-friendly businesses and economies. The book fosters cooperation among researchers, companies, and policymakers to share national initiatives and disseminate relevant knowledge. Covering topics such as cross-cultural communication, green product consumption, and organization performance strategies, this major reference work is an essential resource for business leaders and managers, entrepreneurs, government officials, politicians, policymakers, environmentalist organizations, students and faculty of higher education, researchers, and academicians.

Health care is ubiquitous in the industrialized world. Yet, every medical development, technique, and procedure impacts the environment. Green bioethics synthesizes environmental ethics and biomedical ethics, thus creating an interdisciplinary approach to sustainable health care. Notably, green bioethics addresses not the structure of environmental sustainability in health-care institutions but the sustainability of individual health-care offerings. It parallels traditional biomedical ethics by providing four principles for ethical guidance: distributive justice, resource conservation, simplicity, and ethical economics. Through these four principles, green bioethics presents a coherent framework for evaluating the sustainability of medical developments, techniques, and procedures. The future of our world may very well depend on how effectively we halt ecological destruc-

tion and conserve our resources in all areas of life. The principles of green bioethics, outlined in this book, will advance sustainability in health care.

This book addresses several aspects of environmental sustainability awareness and prioritization, explores ways to use resources and processes more responsibly, and describes the strategies, models and tools required to overcome various challenges. Sustainable and green IT are used to minimize the current ICT recycling problems which are harming our planet. The book discusses the new green information technologies as alternatives to conventional ICT, which have significantly harmed nature, and examines how to make recent technologies such as cloud computing; social networking; smart technology; blockchains, IoT (internet-of-things); and big data sustainable. Exploring sustainability awareness and importance among individuals and organizations in the developed and developing countries, most of the contributions conclude that sustainability should be considered a duty in order to change mindsets, attitudes and actions so as to preserve our planet. Furthermore, it examines the green information technology strategies and models.

Design for Sustainability: Green Materials and Processes provides fundamental and practical knowledge surrounding product development applications throughout the entire lifecycle of green materials, ranging from conceptual design, material and manufacturing process selection, and environmental lifecycle assessment. In addition, several topics covering recent advances in the application of sustainable design within the automotive, building and construction, packaging and consumer product industries are also included in this book to provide practical examples of this philosophy in current applications. Lastly, a section on implementation of design for sustainability in education is added to aid readers that wish to introduce this philosophy to younger students. This book will be beneficial to researchers, students in higher education institutions, design practitioners and engineers in private and public sector organization with aspirations to develop sustainable products in the future. Design for sustainability is one of the primary focuses in human advancement nowadays, with the aim of developing products and services that meet the needs of the present without compromising the ability of future generations to meet their own needs. Provides an overview on materials and process design for sustainability Discusses theoretical aspects about design for sustainability Includes a discussion of the most recent advances and applications in design for sustainability

The integration of eco-friendly aspects, tools and solutions into a conventional supply chain leads to environmentally friendly global processes in the manufacturing and service industry. This book offers a selection of chapters that explain the impact of green supply chain solutions on value-making chains. The aim of this book is to help students at all levels as well as managers and researchers to understand and appreciate the concept, design and implementation of green supply chain solutions in the Industry 4.0 era.

This work presents and discusses the latest approaches and strategies for implementing Sustainability and Green IT into higher education and business environments. Following the global financial crisis in 2007/2008, businesses began to struggle coping with the increased IT/IS cost and their environmental footprint. As a consequence, action by universities to incorporate sustainability and 'Green IT' as parts of their teaching and learning materials, acknowledging their importance for global and local businesses, is being increasingly implemented. The book addresses the cooperation and coordination between academics and practitioners needed in order to achieve the changes required to obtain sustainability. Intended for researchers, lecturers and post-graduate students, as well as professionals in the Information Society and ICT and education sectors, and policy makers.

When the Nobel Prize Committee recognized the importance of green chemistry with its 2005 Nobel Prize for Chemistry, this relatively new science came into its own. Although no concerted agreement has been reached yet about the exact content and limits of this interdisciplinary discipline, there seems to be increasing interest in environmental topic

Various Multiple Criteria Decision-Making (MCDM) techniques in one book: 13 MCDM techniques have been applied, namely, WSM, WPM, WASPAS, GRA, SMART, CRITIC, ENTROPY, EDAS, MOORA, AHP, TOPSIS, VIKOR, and new tools: MDEMATEL, Fuzzy MDEMATEL, Modified Fuzzy TOPSIS and Modified Fuzzy VIKOR. To date, no other book possesses this many tools. Various quantitative techniques: Different quantitative techniques have been applied, namely, Cronbach alpha, Chi-square and ANOVA (for demographic analysis), Percent Point Score and Central Tendency (response analysis), Factor Analysis, Correlation and Regression. To date, no other book possesses this many tools. Interpretive Structural Modelling: ISM has been applied for verifying MCDM results through MICMAC

analysis and ISM model thus paving the way for model through SEM. Structural Equation Modelling: SEM using AMOS in PASW has been applied for model development. New MCDM techniques developed: In the process during qualitative analysis, new tools have been developed and their results have been compared with other existing MCDM tools and the results are encouraging. The new techniques are MDEMATEL, Fuzzy MDEMATEL, Modified Fuzzy TOPSIS and Modified Fuzzy VIKOR. Qualitative Model Developed: As the title says, Sustainable Green Development and Manufacturing Performance through Modern Production Techniques. It is a need-of-the-hour topic, as industries must maintain their performance (sustainable development) and, while sustaining, they have to keep in mind green issues (that is, environment-related issues, especially during the COVID-19 pandemic) and adopt advanced manufacturing and maintenance techniques. A model for this has been developed which will be helpful to both academicians and industrialists. Real-time Case Studies: Case studies in two industries of differing origins, different manufacturing sectors, different products, and comparing their units in the country of their origin and India. Dr. Chandan Deep Singh is an assistant professor in the Department of Mechanical Engineering, Punjabi University, Patiala, Punjab (India). He is a co-author of Adolescents, Family and Consumer Behaviour (Routledge, 2020) and of Manufacturing Competency and Strategic Success in the Automobile Industry (CRC Press, 2019). Dr. Harleen Kaur is a manager (HR) at DELBREC Industries, Pvt. Ltd., Chandigarh. She co-authored Adolescents, Family and Consumer Behaviour (Routledge, 2020).

The issue of sustainability has become a vital discussion in many industries within the public and private sectors. In the business realm, incorporating such practices allows organizations to re-design their operations more effectively. Green Supply Chain Management for Sustainable Business Practice examines the challenges and benefits of implementing sustainability into the core functions of contemporary enterprises, focusing on how green approaches improve operations in an ecological way. Highlighting key concepts, emerging innovations, and future directions, this book is a pivotal reference source for professionals, managers, educators, and upper-level students.

The principles of Green Chemistry aim to improve the sustainability of chemical processes and reduce the generation of hazardous substances. There has been great growth in the field over the past few years and the number of research groups working in this area is still increasing. Now one of the biggest challenges is to embed the Green Chemistry ideals of safety and sustainability as standard, both in industry and academia. In order to do this, it is important to create resources that detail different applications and approaches. Green Synthetic Processes and Procedures brings together expert contributors from across a number of areas of green synthesis to cover a diverse array of subjects. Providing a thorough overview of the current green synthetic toolbox, from biocatalysis to sonochemistry, this book is a useful resource for any chemist wishing to design cleaner and safer processes.

The use of environmentally safe products is an emerging and popular trend throughout various industries. Product manufacturing and sales has changed in order to incorporate green initiatives that will appeal to this fast-growing market. Driving Green Consumerism Through Strategic Sustainability Marketing is an essential reference source for the latest scholarly research on the latest trends of consumerism and its effect and implications on the environment. Featuring coverage on topics and perspectives such as nutraceutical products, green marketing, and animal products, this publication is ideal for those interested in aspects of green consumerism.

The 'bioeconomy' is the idea of an economy based on the sustainable exploitation of biological resources. Within this concept, there is increasing emphasis on issues such as climate change, depletion of natural resources and growing world food needs. The bioeconomy builds on the recognition of advances in technology, particularly in the life sciences, but at the same time covers issues such as innovation management, ecosystem services, development and governance. This book explores the development of the bioeconomy across the world from an economic and policy perspective, as well as identifying potential future pathways and issues. It uses a broad definition, covering all sectors using biological resources except health, and rather than focusing on individual sectors, it explores the breadth of interconnections that make the bioeconomy a new and challenging subject. Divided into two parts, the book initially outlines the current definitions, strategies, policy and economic information related to the world's bioeconomy. The second part describes current economic analysis and research efforts in qualifying and understanding the economics of the bioeconomy. This includes the contributions of technology, research and innovation; driving forces and demand-side economics; supply-side economics, and the role of markets and public policy in matching demand and supply. The political economy, regulation and transitions are considered, as well as the contribution of the bioeconomy to society, including growth, development and sustainability. Key

features include: - An analysis of varied international approaches to the bioeconomy. - A joint consideration of biotechnology, agriculture, food energy and bio-materials. - An assessment of sustainability in the bioeconomy. - A comprehensive view of the issues from an economic and policy perspective. This book will be of interest to students and researchers in agricultural and natural resource economics, agricultural and environmental policy, as well as policy-makers, practitioners and economists.

Global Sustainable Communities Handbook is a guide for understanding and complying with the various international codes, methods, and legal hurdles surrounding the creation of sustainable communities all over the world. The book provides an introduction to sustainable development, technology and infrastructure outlines, codes, standards, and guidelines written by experts from across the globe. Includes methods for the green use of natural resources in built communities Clearly explains the most cutting edge green technologies Provides a common approach to building green communities Covers green practices from architecture to construction

Support in higher education is an emerging area of great interest to professors, researchers and students in academic institutions. Sustainability in Higher Education provides discussions on the exchange of information between different aspects of sustainability in higher education. This book includes chapter contributions from authors who have provided case studies on various areas of education for sustainability. focus on sustainability present studies in aspects related with higher education explores a variety of educational aspects from an sustainable perspective

"As the summary of a vision, the book is brilliant. One can feel the enthusiasm of the authors throughout...I see it as a vehicle for initiating a fruitful dialogue between chemical producers and regulatory enforcers without the confrontation, which often characterizes such interactions." -Martyn Poliakoff, Green Chemistry, February ' Its is an introductory text taking a broad view and intergrating a wide range of topics including synthetic methodologies, alternative solvents and catalysts, biosynthesis and alternative feedstocks. There are exercises for students and the last chapter deals with future trends' Aslib

The worldwide consumption of resources is causing environmental damage at a rate that cannot be sustained. Apart from the resulting environmental and health problems, this trend could threaten economic growth due to rapidly decreasing natural resources and the cost of addressing these issues. The public sector has a responsibility to stimulate the marketplace in favor of the provision of more resource-efficient and less polluting goods, services, and works in order to support environmental and wider sustainable development objectives. Green Public Procurement Strategies for Environmental Sustainability provides innovative insights on the adoption and implementation of green public procurement for sustainable practice in order to contribute to environmental protection. The content within this publication examines climate change, sustainable development, and document analysis and is designed for policymakers, environmentalists, managers, suppliers, development agencies, government officials, academicians, researchers, students, and professionals. The climate crisis is the biggest challenge of our time, and we all have a unique role to play. Start here and now with this book. In this revolutionary call to action, unlock your superpower through a daily practice of sustainability. Noted environmentalist Heather White offers an easy-to-follow guide for climate action while brilliantly weaving together warm and funny stories from her childhood in East Tennessee, anecdotes from 20+ years of environmental advocacy, and scenes from parenting two GenZ daughters in Bozeman, Montana. In One Green Thing, White shows you how to contribute to the climate movement through self-discovery - your personality, interests, and strengths. First, you'll take the Service Superpower Profile Assessment, which will reveal your special gifts in service to others and the planet. Based on your profile, you'll then be equipped to: Begin your adventure with a 21-Day Kickstarter Plan that shares specific actions you can take Use the Eco-Impact Top Ten—the primary areas that can affect positive, lasting change—to develop an individualized Eco-Action Plan Log the mental health benefits and measure your progress with the Joy Tracker Write about your journey and your “why” for taking action with exercises and journal prompts that encourage you to reflect Listen and talk with members of Gen Z about their climate anxiety Commit to being an awesome ancestor for future loved ones as you inspire your family, friends, and community to work toward a regenerative, sustainable world Setting the intention each day to take a small step— a “one green thing” to care for the planet--can help ease your eco-anxiety, push the culture toward climate solutions, and create a sense of joy.

Scientific Principles to Guide Sustainable Design Decisions From thermodynamics to fluid dynamics to computational chemistry, this book sets forth the scientific principles underlying the need for sustainable design, explaining not just the "hows" of sustainable design and green engineering,

but also the "whys." Moreover, it provides readers with the scientific principles needed to guide their own sustainable design decisions. Throughout the book, the authors draw from their experience in architecture, civil engineering, environmental engineering, planning, and public policy in order to build an understanding of the interdisciplinary nature of sustainable design. Written to enable readers to take a more scientific approach to sustainable design, the book offers many practical features, including: Case studies presenting the authors' firsthand accounts of actual green projects Lessons learned from Duke University's Smart House Program that demonstrate the concepts and techniques discussed in the book Exercises that encourage readers to use their newfound knowledge to solve green design problems Figures, tables, and sidebars illustrating key concepts and summarizing important points For architects, designers, and engineers, this book enables them to not only implement green design methods, but also to choose these methods based on science. With its many examples, case studies, and exercises, the book is also an ideal textbook for students in civil and environmental engineering, construction, and architectural engineering.

Sustainability has become an unavoidable topic in modern society. In order for sustainable development to be fully achieved, it must be integrated into the planning and measurement systems of business enterprises. Green Initiatives for Business Sustainability and Value Creation is an essential reference source including the most recent scholarly research on the development and application of green business models for contemporary organizations, with a focus on possible contexts and constructs of closed loop supply chain management. Featuring extensive coverage on topics such as consumption behavior, political economy, and structural modeling, this book is ideally designed for academicians, researchers, and professionals seeking current research on the importance of strategic green business practices.

During the first decade of the 21st century, the world has witnessed a plethora of corporate scandals, global economic crises, and rising environmental concerns. As a result of these developments, pressure has been mounting on businesses to pay more attention to the environmental and resource consequences of the products they produce and services they deliver. The Handbook of Research on Creating Sustainable Value in the Global Economy contains a collection of pioneering research on the integration of issues of sustainability within the traditional areas of management. While highlighting topics including green marketing, circular economy, and sustainable business, this book is ideally designed for managers, executives, environmentalists, economists, business professionals, researchers, academicians, and students in disciplines including marketing, economics, finance, operations management, communication science, and information technology.

What does it take to prepare students, teachers, and school staff to shape a just and sustainable future? In Trailblazers for Whole School Sustainability, you will meet educators and school leaders who are on the front lines of re-imagining school through the lens of sustainability. This book features inspiring stories from around the country, from urban and rural schools and districts, that highlight best practices and lessons learned from teachers, administrators, and students as they transformed their school communities for a just and sustainable future. These stories are structured around a practical framework that demonstrates how this work allows schools and districts to work smarter, not harder, by integrating sustainability and systems thinking into leadership; curriculum and instruction; culture and climate; and facilities and operations. While each school and district's story in this book is different, the passion that drives each one to embrace sustainability in everything they do, from operations to curriculum, remains the same. Trailblazers for Whole School Sustainability shows what is possible when educators resolve to blaze a trail to re-imagine K-12 education for a just and sustainable future.

This book examines the spectrum of green behaviors in organizational settings, focusing on the contribution that employees make through their environmental engagement. The authors provide an overview of green behaviors while clarifying the meaning of the concept and its critical importance to greening employees. By distinguishing between voluntary (e.g., encouraging colleagues to express their ideas about environmental issues), prescribed (e.g., having an obligation to implement environmental policies), and counterproductive (e.g., not caring about water or electricity consumption) behaviors, the book rethinks sustainable development, placing the psychological and environmental dimensions on a par. Aimed at researchers in human resource management, organizational behavior, organizational change, and psychology, this interdisciplinary study proposes a novel approach to sustainability by assessing employee behaviors at work. Virginie Francoeur holds a bachelors degree in management, a masters degree in organizational development (HEC Montreal) and a Ph.D. in administrative sciences (Universite Laval, Quebec). To further develop her expertise in the field of environmental psychology, she also completed a doctoral internship at the

Faculty of Psychology of the University of Valencia, Spain. She is currently Assistant Professor of Organizational Change in the Department of Mathematics and Industrial Engineering at Polytechnique Montreal. Her teaching and research focus on organizational change and sustainable development, with a particular interest in green behaviors. Her research has appeared in Journal of Cleaner Production, Organization & Environment, Journal of Business Research and European Management Journal. Alongside her academic research, Virginie Francoeur has published 5 books in Canada and France (2 essays, 2 books of poetry, and a novel). Pascal Paille is Full Professor of Human Resources in the People & Organisations Department at Neoma Business School, France. His research and teaching interests lie in sustainable human resource management. His research mainly focuses on greening the workplace through green human resource management and organizational citizenship behavior for the environment. He has published 4 books, 1 essay, 15 book chapters and over 80 articles in peer-reviewed journals. His research has appeared in Journal of Business Ethics, Journal of Business Research, International Journal of Human Resource Management, Journal of Cleaner Production, and Organization & Environment. Pascal Paille.

First James Lovelock, and recently Prince William and David Attenborough believe that we have reached a tipping point in the process of climate change. Whether they are right or not, it is certainly true that the impact of humankind upon the ecology of the earth has reached a point where real changes in human behaviour are required. If managers are to be enablers of planetary survival then we need to develop a new approach to risk, which explicitly includes ecological limits upon economic behaviour. This implies a fundamental reorientation of their role in allocating resources to minimise risk and maximise reward. This book brings together some of the brightest contemporary thinkers on leadership, complexity and sustainability to consider the big ideas that we will need to make the changes required, and to outline the major themes that can inform a new approach to constructing a green world. It looks at how to ensure that local models of sustainability are able to flourish in the context of global networks and presents specific case studies of markets and organisations that offer insights into the development integrated solutions and the leadership lessons we can learn. Combining both theory and practice, this book serves to guide business managers and provides deeper insight and critical perspectives on some of the key issues facing leaders moving towards the green economy. It also provides useful supplementary reading for students in business and environmental studies.

In contemporary times, most organizational functions (such as finance, marketing, and supply chains) have assessed their impact on the environment. HR has lagged behind other disciplines in discussions of sustainability, though the literature on this topic has grown significantly in recent years. This book, engaging SDGs 4 and 8, among others, examines green HRM from a variety of perspectives. Divided into three sections, it explores the process of human resource acquisition, the connection between green HRM practice and employee behavior, and international perspectives of green HRM. The final chapter presents a summary analysis of topics discussed in the book and outlines potential future paths of research for the field. This volume, featuring leading researchers from across the globe, further develops this emerging field for HR and organizational behavior scholars.

Sustainable development is a globally recognized mandate and it includes green or environment-friendly manufacturing practices. Such practices orchestrate with the self-healing and self-replenishing capability of natural ecosystems. Green manufacturing encompasses synthesis, processing, fabrication, and process optimization, but also testing, performance evaluation and reliability. The book shall serve as a comprehensive and authoritative resource on sustainable manufacturing of ceramics, metals and their composites. It is designed to capture the diversity and unity of methods and approaches to materials processing, manufacturing, testing and evaluation across disciplines and length scales. Each chapter incorporates in-depth technical information without compromising the delicate link between factual data and fundamental concepts or between theory and practice. Green and sustainable materials processing and manufacturing is designed as a key enabler of sustainable development. A one-stop compendium of new research and technology of green manufacturing of metals, ceramics and their composites In-depth cutting-edge treatment of synthesis, processing, fabrication, process optimization, testing, performance evaluation and reliability which are of critical importance to green manufacturing Stimulates fresh thinking and exchange of ideas and information on approaches to green materials processing across disciplines

An expert on business strategy offers a pragmatic take on how businesses of all sizes balance the competing demands of profitability and employment with sustainability. The demands and stresses on companies only grow as executives face a multitude of competing business goals. Their stake-

holders are interested in corporate profits, jobs, business growth, and environmental sustainability. In this book, business strategy expert Yossi Sheffi offers a pragmatic take on how businesses of all sizes—from Coca Cola and Siemens to Dr. Bronner's Magical Soaps and Patagonia—navigate these competing goals. Drawing on extensive interviews with more than 250 executives, Sheffi examines the challenges, solutions, and implications of balancing traditional business goals with sustainability. Sheffi, author of the widely read *The Resilient Enterprise*, argues that business executives' personal opinions on environmental sustainability are irrelevant. The business merits of environmental sustainability are based on the fact that even the most ardent climate change skeptics in the C-suite face natural resource costs, public relations problems, regulatory burdens, and a green consumer segment. Sheffi presents three basic business rationales for corporate sustainability efforts: cutting costs, reducing risk, and achieving growth. For companies, sustainability is not a simple

case of “profits versus planet” but is instead a more subtle issue of (some) people versus (other) people—those looking for jobs and inexpensive goods versus others who seek a pristine environment. This book aims to help companies satisfy these conflicting motivations for both economic growth and environmental sustainability.

*Sustainable Materials and Green Processing for Energy Conversion* provides a concise reference on green processing and synthesis of materials required for the next generation of devices used in renewable energy conversion and storage. The book covers the processing of bio-organic materials, environmentally-friendly organic and inorganic sources of materials, synthetic green chemistry, bioresorbable and transient properties of functional materials, and the concept of sustainable material design. The book features chapters by worldwide experts and is an important reference for students, researchers, and engineers interested in gaining extensive knowledge concerning green pro-

cessing of sustainable, green functional materials for next generation energy devices. Additionally, functional materials used in energy devices must also be able to degrade and decompose with minimum energy after being disposed of at their end-of-life. Environmental pollution is one of the global crises that endangers the life cycles of living things. There are multiple root causes of this pollution, including industrialization that demands a huge supply of raw materials for the production of products related to meeting the demands of the Internet-of-Things. As a result, improvement of material and product life cycles by incorporation of green, sustainable principles is essential to address this challenging issue. Offers a resourceful reference for readers interested in green processing of environmentally-friendly and sustainable materials for energy conversion and storage devices. Focuses on designing of materials through green-processing concepts. Highlights challenges and opportunities in green processing of renewable materials for energy devices.