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KEY=IN - LEVY BROOKLYN

Printmaking Revolution New Advancements in Technology, Safety, and Sustainability [Watson-Guptill](#) A tome of the newest advances in printmaking for today's environmentally conscious art students, master printers, teachers, and artists Etching, lithography, and screenprinting shouldn't be harmful to the artist or the planet. With cutting edge, never-before-published advances in printmaking media, Printmaking Revolution provides artists, students, and teachers alike with safer, environmentally friendly and non-carcinogenic methods for creating beautiful prints. Inside, teacher and professional artist, Dwight Pogue offers groundbreaking information on embracing green, petroleum-free, nontoxic materials that comply with the Environmental Protection Agency (EPA) and Occupational Safety and Health Administration (OSHA) requirements. With new alternatives for the modern era, and work by some of today's most notable artists, including Janet Fish, James Rosenquist Walton Ford, and Louisa Chase, this book truly revolutionizes the techniques, materials, and processes of a time-honored medium. **Nanotechnology and Global Sustainability** [CRC Press](#) The rise of collaborative consumption, peer-to-peer systems, and not-for-profit social enterprise heralds the emergence of a new era of human collectivity. Increasingly, this consolidation stems from an understanding that big-banner issues—such as climate change—are not the root causes of our present global predicament. There is a growing and collective view that issues such as this are actually symptoms of a much more vicious, seemingly insurmountable condition: our addiction to economic, consumption, and population growth in a world of finite resources. Nanotechnology and Global Sustainability uses nanotechnology—the product of applied scientific knowledge to control and utilize matter at atomic and molecular scales—as a lens through which to explore the interrelationship between innovation, politics, economy, and sustainability. This groundbreaking book addresses how stakeholders can actively reshape agendas to create positive and sustainable futures through this latest controversial, cross-sectoral technology. It moves beyond issues of efficiency, productivity, and utility, exploring the insights of 22 contributors from around the world, whose work spans the disciplines of science and the humanities. Their combined knowledge, reinforced with various case studies, introduces an exciting prospect—how we can innovate without economic growth. This new volume in the Perspectives in Nanotechnology series is edited by Dr. Donald Maclurcan and Dr. Natalia Radywyl. Dr. Maclurcan is a social innovator and Honorary Research Fellow with the Institute for Nanoscale Technology at the University of Technology Sydney, Australia. Dr. Radywyl is a social researcher and Honorary Research Fellow in the School of Culture and Communication at the University of Melbourne, Australia. She is also an Adjunct Research Fellow in the Faculty of Life and Social Sciences at Swinburne University of Technology, Melbourne. This book is written for a wide audience and will be of particular interest to activists, scholars, policy makers, scientists, business professionals, and others who seek an understanding of how we might justly transition to sustainable societies. **Strategic Sustainability A Natural Environmental Lens on Organizations and Management** [Routledge](#) Strategic Sustainability examines how organizations can implement environmental sustainability science, theories, and ways of thinking to become more competitive. Including examples and ideas implemented in various countries, it is based on known scientific principles about the natural world and organizational principles focusing on the work domain. The intersection of these two realms of research creates a powerful and new approach to comprehensive, seemingly contradictory issues. Daniel S. Fogel draws from disparate fields and creates a story about organizations, their future and how people are part of the problem and, more importantly, part of the solution. Readers will find ways to take action to improve organizations and avoid denigrating our natural environment, learning to be mindful of the urgency we should feel to improve our impact on the world. The focus on the natural environment provides a powerful focus for creating value in organizations and addressing the major challenges we all face. Advanced sustainability students, working professionals and board members, managers and legislators responsible for governing organizations or implementing public policy will find this book useful. A companion website features an instructor's manual with test questions, as well as 38, 10-minute videos for classroom use. **Science, Technology and Innovation for Sustainable Development Goals Insights from Agriculture, Health, Environment, and Energy Ensuring Open Science at EPA Hearing Before the Subcommittee on Environment, Committee on Science, Space, and Technology, House of Representatives, One Hundred Thirteenth Congress, Second Session, February 11, 2014 Handbook of Research on Advancements in Environmental Engineering** [IGI Global](#) The protection of clean water, air, and land for the habitation of humans and other organisms has become a pressing concern amid the intensification of industrial activities and the rapidly growing world population. The integration of environmental science with engineering principles has been introduced as a means of long-term sustainable development. The Handbook of Research on Advancements in Environmental Engineering creates awareness of the role engineering plays in protecting and improving the natural environment. Providing the latest empirical research findings, this book is an essential reference source for executives, educators, and other experts who seek to improve their project's environmental costs. **Research Anthology on Environmental and Societal Well-Being Considerations in Buildings and Architecture** [IGI Global](#) When it comes to architecture, there has been a focus on sustainable buildings and human well-being in the built environment. Buildings should not only be environmentally friendly and sustainable, but dually focused on human health, wellness, and experience. This includes considerations into the quality of buildings, ranging from ventilation to thermal comfort, along with environment considerations such as energy usage and material selection. Specific architectural choices and design for buildings can either contribute to or negatively impact both society and the environment, leading research in the field of architecture to be focused on environmental and societal well-being in accordance with the built environment. The Research Anthology on Environmental and Societal Well-Being Considerations in Buildings and Architecture focuses on how the built environment is being constructed to purposefully enhance societal well-being while also maintaining green standards for environmental sustainability. On one side, this book focuses on the specific building choices that can be made for the purpose of human well-being and the occupants who will utilize the building. On the other side, this book also focuses on environmental sustainability from the standpoint of green buildings and environmental concerns. Together, these topics allow this book to have a holistic view of modern architectural choices and design. This book is essential for architects, IT professionals, engineers, contractors, environmentalists, interior designers, civil planners, regional government officials, construction companies, policymakers, practitioners, researchers, academicians, and students interested in architecture and how it can promote environmental and societal well-being. **Advances in Bioprocess Technology** [Springer](#) This book provides an extensive overview of the latest research in environmentally benign integrated bioprocess technology. The cutting edge bioprocess technologies highlighted in the book include bioenergy from lignocellulose materials, biomass gasification, ethanol, butanol, biodiesel from agro waste, enzymatic bioprocess technology, food fermentation with starter cultures, and intellectual property rights for bioprocesses. This book further addresses niche technologies in bioprocesses that broadens readers' understanding of downstream processing for bio products and membrane technology for bioprocesses. The latest developments in biomass and bioenergy technology are reviewed exhaustively, including IPR rights, nanotechnology for bioenergy products, biomass gasification, and biomass combustion. This is an ideal book for scientists, engineers, students, as well as members of industry and policy-makers. This book also: Addresses cutting-edge technologies in bioprocesses Broadens readers' understanding of metabolic engineering, downstream processing for bioproducts, and membrane technology for bioprocesses Reviews exhaustively the latest developments in biomass and bioenergy technology, including nanotechnology for bioenergy products, biomass gasification, biomass combustion, and more **Corporate Environmental Management Information Systems: Advancements and Trends Advancements and Trends** [IGI Global](#) "This book summarizes the state of the art in the emergent field of Corporate Environmental Management Information Systems, showing researchers, managers, engineers and information technology specialists how to develop and implement effective CEMIS"--Provided by publisher. **Breakthrough The Promise of Frontier Technologies for Sustainable Development** [Brookings Institution Press](#) Harnessing technology for a better future Looking into the future is always difficult and often problematic—but sometimes it's useful to imagine what innovations might resolve today's problems and make tomorrow better. In this book, 15 distinguished international experts examine how technology will affect the human condition and natural world within the next ten years. Their stories reflect major ambitions for what the future could bring and offer a glimpse into the possibilities for achieving the UN's ambitious Sustainable Development Goals. The authors were asked to envision future success in their respective fields, given the current state of technology and potential progress over the next decade. The central question driving their research: What are likely technological advances that could contribute to the Sustainable Development Goals at major scale, affecting the lives of hundreds of millions of people or substantial geographies around the globe. One overall takeaway is that gradualist approaches will not achieve those goals by 2030. Breakthroughs will be necessary in science, in the development of new products and services, and in institutional systems. Each of the experts responded with stories that reflect big ambitions for what the future may bring. Their stories are not projections or forecasts as to what will happen; they are reasoned and reasonable conjectures about what could happen. The editors' intent is to provide a glimpse into the possibilities for the future of sustainable development. At a time when many people worry about stalled progress on the economic, social, and environmental challenges of sustainable development, Breakthrough is a reminder that the promise of a better future is within our grasp, across a range of domains. It will interest anyone who wonders about the world's economic, social, and environmental future. **Pathways to Urban Sustainability Challenges and Opportunities for the United States** [National Academies Press](#) Cities have experienced an unprecedented rate of growth in the last decade. More than half the world's population lives in urban areas, with the U.S. percentage at 80 percent. Cities have captured more than 80 percent of the globe's economic activity and offered social mobility and economic prosperity to millions by clustering creative, innovative, and educated individuals and organizations. Clustering populations, however, can compound both positive and negative conditions, with many modern urban areas experiencing growing inequality, debility, and environmental degradation. The spread and continued growth of urban areas presents a number of concerns for a sustainable future, particularly if cities cannot adequately

address the rise of poverty, hunger, resource consumption, and biodiversity loss in their borders. Intended as a comparative illustration of the types of urban sustainability pathways and subsequent lessons learned existing in urban areas, this study examines specific examples that cut across geographies and scales and that feature a range of urban sustainability challenges and opportunities for collaborative learning across metropolitan regions. It focuses on nine cities across the United States and Canada (Los Angeles, CA, New York City, NY, Philadelphia, PA, Pittsburgh, PA, Grand Rapids, MI, Flint, MI, Cedar Rapids, IA, Chattanooga, TN, and Vancouver, Canada), chosen to represent a variety of metropolitan regions, with consideration given to city size, proximity to coastal and other waterways, susceptibility to hazards, primary industry, and several other factors. 21st Century Technologies Promises and Perils of a Dynamic Future Promises and Perils of a Dynamic Future [OECD Publishing](#) This book reviews the extraordinary promise of technological advances over the next twenty years or so, and assesses some of the key issues -- economic, social, environmental, ethical -- that decision-makers in government, business and society will face in the decades ahead. The Law and Economics of a Sustainable Energy Trade Agreement [Cambridge University Press](#) This book addresses the case for a Sustainable Energy Trade Agreement and the move from fossil fuels to renewable energy. Our Common Future National EHealth Strategy Toolkit Worldwide, the application of information and communication technologies to support national health-care services is rapidly expanding and increasingly important. This is especially so at a time when all health systems face stringent economic challenges and greater demands to provide more and better care, especially to those most in need. The National eHealth Strategy Toolkit is an expert, practical guide that provides governments, their ministries and stakeholders with a solid foundation and method for the development and implementation of a national eHealth vision, action plan and monitoring framework. All countries, whatever their level of development, can adapt the Toolkit to suit their own circumstances. Representing one of the most significant collaborations in recent years between the World Health Organization and the International Telecommunication Union, the Toolkit is a landmark in understanding what eHealth is, what it can do, and why and how it should be applied to health care today. Technology, Globalization, and Sustainable Development Transforming the Industrial State [Yale University Press](#) In this work, the authors offer a unified, transdisciplinary approach for achieving sustainable development in industrialized nations. They present an insightful analysis of the ways in which industrial states are unsustainable and how economic and social welfare are related to the environment, public health and safety. Sustainable Infrastructure: Breakthroughs in Research and Practice Breakthroughs in Research and Practice [IGI Global](#) The continued growth of any nation depends largely on the development of their built infrastructures and communities. By creating stable infrastructures, countries can more easily thrive in competitive international markets. Sustainable Infrastructure: Breakthroughs in Research and Practice examines sustainable development through the lens of transportation, waste management, land use planning, and governance. Highlighting a range of topics such as sustainable development, transportation planning, and regional and urban infrastructure planning, this publication is an ideal reference source for engineers, planners, government officials, developers, policymakers, legislators, researchers, academicians, and graduate-level students seeking current research on the latest trends in sustainable infrastructure. Federal Register Prospects of Blockchain Technology for Accelerating Scientific Advancement in Healthcare [IGI Global](#) Health information about any patent is extremely critical. As there are many malicious users and misuses of health data, this information is not shared amongst health organizations due to security and privacy issues. Blockchain is being explored as a platform for securely exchanging healthcare data among the organizations in public domains, allowing doctors and practitioners to have access to more comprehensive health histories and in turn provide better care to patients. Prospects of Blockchain Technology for Accelerating Scientific Advancement in Healthcare disseminates the recent research findings on blockchain in healthcare and reviews current state-of-the-art blockchain applications in healthcare. This book also discusses various challenges faced by the healthcare community in securing healthcare data. Covering topics such as consensus mechanisms, smart healthcare systems, and supply chain management, it serves as an essential resource for healthcare professionals, computer scientists, information security professionals, data scientists, policymakers, researchers, and academicians. Journal of the Assembly, Legislature of the State of California Environmental Health Perspectives Occupational Safety and Hygiene [CRC Press](#) Occupational Safety and Hygiene presents selected papers from the International Symposium on Occupational Safety and Hygiene SHO2013 (Guimar, Portugal, 14-15 February 2013), which was organized by the Portuguese Society for Occupational Safety and Hygiene (SPOSHO). The contributions from 15 different countries focus on:- Occupational safety- Ris The Future of Tourism Innovation and Sustainability [Springer](#) This book presents the foundations for the future of tourism in a structured and detailed format. The who-is-who of tourism intelligence has collaborated to present a definitive blueprint for tourism reflecting the role of science, market institutions, and governance in its innovation and sustainability. The book adopts a comprehensive approach, exploring recent research and the latest developments in practice to inform the reader about instruments and actions that can shape a successful future for tourism. Broad in scope, the book incorporates the perspectives of leading tourism academics, as well as the views of tourism entrepreneurs, destination managers, government officials, and civil leaders. The book is divided into three parts, the first of which addresses the scientific facets of innovation, analyzing the challenges and opportunities that technology provides for organic and disruptive developments in tourism, which will shape its future. In turn, the second part examines socio-cultural paradigms - with a view to dismantling traditional barriers to innovation. It also explores the role of heritage and the ethics of inclusiveness as drivers for sustainable tourism. The third part investigates new ways and means in governance and policy making for tourism. It introduces advances such as strategic positioning, symbiotic partnerships, and innovative management, and closes by presenting governance frameworks for an inclusive and sustainable future of tourism. Big Data Science and Analytics for Smart Sustainable Urbanism Unprecedented Paradigmatic Shifts and Practical Advancements [Springer](#) We are living at the dawn of what has been termed 'the fourth paradigm of science,' a scientific revolution that is marked by both the emergence of big data science and analytics, and by the increasing adoption of the underlying technologies in scientific and scholarly research practices. Everything about science development or knowledge production is fundamentally changing thanks to the ever-increasing deluge of data. This is the primary fuel of the new age, which powerful computational processes or analytics algorithms are using to generate valuable knowledge for enhanced decision-making, and deep insights pertaining to a wide variety of practical uses and applications. This book addresses the complex interplay of the scientific, technological, and social dimensions of the city, and what it entails in terms of the systemic implications for smart sustainable urbanism. In concrete terms, it explores the interdisciplinary and transdisciplinary field of smart sustainable urbanism and the unprecedented paradigmatic shifts and practical advances it is undergoing in light of big data science and analytics. This new era of science and technology embodies an unprecedentedly transformative and constitutive power—manifested not only in the form of revolutionizing science and transforming knowledge, but also in advancing social practices, producing new discourses, catalyzing major shifts, and fostering societal transitions. Of particular relevance, it is instigating a massive change in the way both smart cities and sustainable cities are studied and understood, and in how they are planned, designed, operated, managed, and governed in the face of urbanization. This relates to what has been dubbed data-driven smart sustainable urbanism, an emerging approach based on a computational understanding of city systems and processes that reduces urban life to logical and algorithmic rules and procedures, while also harnessing urban big data to provide a more holistic and integrated view or synoptic intelligence of the city. This is increasingly being directed towards improving, advancing, and maintaining the contribution of both sustainable cities and smart cities to the goals of sustainable development. This timely and multifaceted book is aimed at a broad readership. As such, it will appeal to urban scientists, data scientists, urbanists, planners, engineers, designers, policymakers, philosophers of science, and futurists, as well as all readers interested in an overview of the pivotal role of big data science and analytics in advancing every academic discipline and social practice concerned with data-intensive science and its application, particularly in relation to sustainability. The Fourth Industrial Revolution [Penguin UK](#) The founder and executive chairman of the World Economic Forum on how the impending technological revolution will change our lives We are on the brink of the Fourth Industrial Revolution. And this one will be unlike any other in human history. Characterized by new technologies fusing the physical, digital and biological worlds, the Fourth Industrial Revolution will impact all disciplines, economies and industries - and it will do so at an unprecedented rate. World Economic Forum data predicts that by 2025 we will see: commercial use of nanomaterials 200 times stronger than steel and a million times thinner than human hair; the first transplant of a 3D-printed liver; 10% of all cars on US roads being driverless; and much more besides. In The Fourth Industrial Revolution, Schwab outlines the key technologies driving this revolution, discusses the major impacts on governments, businesses, civil society and individuals, and offers bold ideas for what can be done to shape a better future for all. Engineering for Sustainable Development [UNESCO Publishing](#) Molecular Approaches for Sustainable Insect Pest Management [Springer Nature](#) Asian Perspectives and Evidence on Health Promotion and Education [Springer Science & Business Media](#) Globalization and information technology have caused many health problems: mental health issues like depression, and lifestyle-related disease like diabetes and obesity. To cope with these health issues, health promotion and education are desperately needed. Convincing policy decision makers to invest in health promotion and education programs, it is needed to show its effectiveness. Health promotion and education professionals are expected to construct evidence of health promotion and education. Most of such evidence has been produced in the US and European countries. Because socio-economic conditions differ between the Asia and Western countries, we cannot depend on such evidence to implement adequate health promotion and education in our region. We must produce and accumulate our own evidence based on Asian perspectives. Sustainable Construction [MDPI](#) Construction is one of the main sectors that generates greenhouse gases. This industry consumes large amounts of raw materials, such as stone, timber, water, etc. Additionally, infrastructure should provide service over many years without safety problems. Therefore, their correct design, construction, maintenance, and dismantling are essential to reducing economic, environmental, and societal consequences. That is why promoting sustainable construction has recently become extremely important. To help address and resolve these types of questions, this book explores new ways of reducing the environmental impacts caused by the construction sector, as well promotes social progress and economic growth. The chapters collect the papers included in the "Sustainable Construction" Special Issue of the Sustainability journal. The papers cover a wide spectrum of issues related to the use of sustainable materials in construction, the optimization of designs based on sustainable indicators, the life-cycle assessment, the decision-making processes that integrate economic, social, and environmental aspects, and the promotion of durable materials that reduce future maintenance. Issues and trends in education for sustainable development [UNESCO Publishing](#) The Global City 2.0 From Strategic Site to Global Actor [Routledge](#) Global cities all over the world are taking on new roles as they increasingly participate directly and independently in international affairs and global politics. So far, surprisingly few studies have analyzed the role of the Global City beyond its already well explicated role in the globalized economy. How is it that local governments of Global Cities claim international political authority and develop what appears to be their own independent foreign and security policies despite the fact that such policy areas have traditionally been considered to be the core function of nation-states and central governments? What does it mean to be and to govern the contemporary Global City? In this book Kristin Ljungkvist claims that we can better understand why local governments find it to be in their Global City's interest to claim international political authority by exploring how the city's role in the globalized world is constructed and narrated locally. A core claim is that Global City-hood as a specific type of collective identity can play a constitutive part in such interest formation. Combining insights from International Relations and Urban Studies scholarship, and with the help of a case study on New York City, Ljungkvist develops a new analytical framework for studying the Global City as an international political actor. The Global City 2.0 shows that even as the Global City engages in various global issues such as global environmental governance or counterterrorism, such pursuit will be framed and rationalized in terms of the city's economic growth. The quest for growth and global competitiveness are not necessarily the only available meanings attached to the being and governing of the contemporary Global City. However, there seems to be a remarkable persistency and attraction in economic ideas and an

economistic conception of the Global City. [Berkshire Encyclopedia of Sustainability 3/10](#) [The Law and Politics of Sustainability Berkshire Publishing Group](#) [The Law and Politics of Sustainability](#) explores efforts made to address pressing environmental concerns through legislation, conventions, directives, treaties, and protocols. Articles explain the mechanics of environmental law, the concepts that shape sustainable development, case studies and rulings that have set precedents, approaches to sustainable development taken by legal systems around the world, and more. Experts and scholars in the field raise provocative questions about the effectiveness of international law versus national law in protecting the environment, and about the effect of current laws on future generations. They analyze the successes and shortcomings of present legal instruments, corporate and public policies, social movements, and conceptual strategies, offering readers a preview of the steps necessary to develop laws and policies that will promote genuine sustainability.

[The Impact of Rapid Technological Change on Sustainable Development](#) The publication seeks to deepen the understanding of the impact of rapid technological change on sustainable development, especially the consequences for the central principle of the 2030 Agenda of "leaving no one behind", and the implications for the science, technology and innovation community. It examines the opportunities, risks and challenges brought about by rapid technological change, and looks at the role of science, technology and innovation (STI) policy. It identifies strategies, policies and immediate actions to take to use science, technology and innovation to empower people, especially those who are vulnerable, and ensure inclusiveness and equality.

[Regional Consultative Workshop Strengthening Aquaculture Governance for Sustainable Development in Asia-Pacific Bangkok, Thailand, 5-6 November 2019](#) [Food & Agriculture Org.](#) Aiming to build regional capacity in aquaculture governance in Asia-Pacific, FAO and NACA jointly implemented a regional consultation in collaboration with NACA member governments to assess the status of aquaculture governance in Asia, share experiences and lessons learned in aquaculture governance among countries, and recommend strategies and actions for further improvement. The consultation consisted of two major activities: country assessment studies and a regional consultative workshop. The country assessment studies were carried out by seven national experts in seven selected countries including Cambodia, China, India, Indonesia, Malaysia, Thailand, and Viet Nam. The consultative workshop was conducted in 5-6 November 2019 in Bangkok, attended by 33 participants including experts and government officers from 15 Asian countries and representatives from FAO, NACA and the Asian Institute of Technology. The findings of the assessment studies were presented to the workshop, and participants then worked on identifying gaps, constraints, and challenges in aquaculture governance in the region and put forward recommendations for further improvement. This publication presents the seven country assessment studies and the outputs of the workshop, including the summary of the status of aquaculture governance in the region, challenges and issues in governing process, and recommendations for further strengthening aquaculture governance in the region.

[Enhancing Security, Sustainability and Resilience in Energy, Food and Water MDPI](#) This book looks at the ways that energy, food, and water help to create connections between sustainability and security. The concept of security is in our current societies increasingly connected with sustainability, which seeks to ensure that we as humans are able to live and prosper on this planet now and in the future. The concepts of energy security, food security, and water security—used separately or together—manifest the burgeoning linkages between security and sustainability. This book brings together ten scientific articles that look at different aspects of security, sustainability, and resilience with an emphasis on energy, food, and/or water in the context of Finland and Europe. Together, the articles portray a rich picture on the diverse linkages between both energy, food, and water, and between security and sustainability. In sum, the articles and related preface conclude that ensuring sustainable security—or secure sustainability—requires systemic, structured processes that link the policies and actors in these two important but still distant fields.

[The Precautionary Principle Protecting Public Health, the Environment and the Future of Our Children](#) The purpose of this publication is to provide the background rationale and support for WHO's working paper [Dealing with uncertainty - how can the precautionary principle help protect the future of our children?](#), prepared for the Fourth Ministerial Conference on Environment and Health held in Budapest, Hungary, in June 2004. The debate around the precautionary principle has provided many insights into how to improve public health decision-making under conditions of uncertainty. This publication should further support approaches to attaining the concurrent goals of protecting adults, children and future generations and the ecosystems on which we depend and enhancing economic development, sustainability and innovation in science, research and policy. [Ed.] [Technological Advancement in Developed and Developing Countries: Discoveries in Global Information Management Discoveries in Global Information Management IGI Global](#) "This book uses a multi-cultural approach to discuss many issues relating to information systems, and takes many different perspectives on this intriguing topic"--Provided by publisher.

[Advances in Clean Energy Production and Application CRC Press](#) [Advances in Clean Energy: Production and Application](#) supports sustainable clean energy technology and green fuel for clean combustion by reviewing the pros and cons of currently available technologies specifically for biodiesel production from biomass sources, recent fuel modification strategy, low-temperature combustion technology, including other biofuels as well. Written for researchers, graduate students, and professionals in mechanical engineering, chemical engineering, energy, and environmental engineering, this book: Covers global energy scenarios and future energy demands pertaining to clean energy technologies Provides systematic and detailed coverage of the processes and technologies used for biofuel production Includes new technologies and perspectives, giving up-to-date and state-of-the-art information on research and commercialization Discusses all conversion methods including biochemical and thermochemical Examines the environmental consequences of biomass-based biofuel use [Indian Agriculture Towards 2030 Pathways for Enhancing Farmers' Income, Nutritional Security and Sustainable Food and Farm Systems Springer Nature](#) [Global Trends 2040 A More Contested World Cosimo Reports](#) "The ongoing COVID-19 pandemic marks the most significant, singular global disruption since World War II, with health, economic, political, and security implications that will ripple for years to come." -[Global Trends 2040 \(2021\) Global Trends 2040-A More Contested World \(2021\)](#), released by the US National Intelligence Council, is the latest report in its series of reports starting in 1997 about megatrends and the world's future. This report, strongly influenced by the COVID-19 pandemic, paints a bleak picture of the future and describes a contested, fragmented and turbulent world. It specifically discusses the four main trends that will shape tomorrow's world: - Demographics-by 2040, 1.4 billion people will be added mostly in Africa and South Asia. - Economics-increased government debt and concentrated economic power will escalate problems for the poor and middleclass. - Climate-a hotter world will increase water, food, and health insecurity. - Technology-the emergence of new technologies could both solve and cause problems for human life. Students of trends, policymakers, entrepreneurs, academics, journalists and anyone eager for a glimpse into the next decades, will find this report, with colored graphs, essential reading.