

## Cause And Effect Visualizing Sustainability

Sustainability is one of the world's hottest topics, but the way it is visualized and communicated is often outdated. Cause and Effect now reveals a contemporary visual language for sustainability. The book showcases a wide range of original and relevant design approaches that raise awareness for a more environmentally conscious lifestyle. The international examples of campaigns, posters, brochures, digital media, interventions, and guerilla marketing featured in Cause and Effect inspire us and challenge us. They clearly describe far-reaching correlations and complex technical processes. They explain and motivate. Together they serve as an unparalleled presentation of the most significant, intelligent, and entertaining communication measures and proposed solutions for sustainability today.

The concept of 'sustainable urban development' has been pushed to the forefront of policymaking and politics as the world wakes up to the impacts of climate change and the destructive effects of the Anthropocene. Climate change has emerged to be one of the biggest challenges faced by our planet today, threatening both built and natural systems with long-term consequences, which may be irreversible. While there is a vast body of literature on sustainability and sustainable urban development, there is currently limited focus on how to cohesively bring together the vital issues of the planning, development, and management of sustainable cities. Moreover, it has been widely stated that current practices and lifestyles cannot continue if we are to leave a healthy living planet to not only the next generation, but also to the generations beyond. The current global school strikes for climate action (known as Fridays for Future) evidences this. The book advocates the view that the focus needs to rest on ways in which our cities and industries can become green enough to avoid urban ecocide. This book fills a gap in the literature by bringing together issues related to the planning, development, and management of cities and focusing on a triple-bottom-line approach to sustainability.

Next Generation Science Standards identifies the science all K-12 students should know. These new standards are based on the National Research Council's A Framework for K-12 Science Education. The National Research Council, the National Science Teachers Association, the American Association for the Advancement of Science, and Achieve have partnered to create standards through a collaborative state-led process. The standards are rich in content and practice and arranged in a coherent manner across disciplines and grades to provide all students an internationally benchmarked science education. The print version of Next Generation Science Standards complements the [nextgenscience.org](http://nextgenscience.org) website and: Provides an authoritative offline reference to the standards when creating lesson plans Arranged by grade level and by core discipline, making information quick and easy to find Printed in full color with a lay-flat spiral binding Allows for bookmarking, highlighting, and annotating

Educational institutions play an instrumental role in social and political change, and are responsible for the environmental and social ethics of their institutional practices. The essays in this volume critically examine scholarly research practices in the age of the Anthropocene, and ask what accountability educators and researchers have in 'righting' their relationship to the environment. The volume further calls attention to the geographical, financial, legal and political barriers that might limit scholarly dialogue by

excluding researchers from participating in traditional modes of scholarly conversation. As such, *Right Research* is a bold invitation to the academic community to rigorous self-reflection on what their research looks like, how it is conducted, and how it might be developed so as to increase accessibility and sustainability, and decrease carbon footprint. The volume follows a three-part structure that bridges conceptual and practical concerns: the first section challenges our assumptions about how sustainability is defined, measured and practiced; the second section showcases artist-researchers whose work engages with the impact of humans on our environment; while the third section investigates how academic spaces can model eco-conscious behaviour. This timely volume responds to an increased demand for environmentally sustainable research, and is outstanding not only in its interdisciplinarity, but its embrace of non-traditional formats, spanning academic articles, creative acts, personal reflections and dialogues. *Right Research* will be a valuable resource for educators and researchers interested in developing and hybridizing their scholarly communication formats in the face of the current climate crisis.

Despite recent optimism and global initiatives, the implementation of corporate sustainability programs has been slow at best, with less than a third of global companies having developed a clear business case for their approach to sustainability. Presenting numerous award-winning cases and examples from companies such as Unilever, Patagonia, Tumi, DSM and Umicore alongside original ideas based upon 20 years of consulting experience, this book reveals how to design and implement a stronger sense of focus and move sustainability programs forward. This proven combination of purpose, direction and speed is dubbed “Vectoring”. Based upon practitioner cases and data analysis from the Dow Jones Sustainability Index, *Vectoring* offers a plain-spoken framework to identify the relative position of companies compared to their peers. The framework and its 4 archetypes deliver insights for practitioners to locate inhibitors and overcome them by providing practical suggestions for process improvements. This includes designing and executing new sustainability programs, embedding the SDGs within company strategy and assessing the impact of sustainability programs on competitiveness and valuation. Offering directions for CFOs to shift companies from integrated reporting to integrated thinking in order to accelerate their sustainability programs, *Winning Sustainability Strategies* shows how to achieve purpose with profit and how to do well by doing good.

A major contribution to the field, this ground-breaking book explores design anthropology’s focus on futures and future-making. Examining what design anthropology is and what it is becoming, the authors push the frontiers of the discipline and reveal both the challenges for and the potential of this rapidly growing transdisciplinary field. Divided into four sections – *Ethnographies of the Possible*, *Interventionist Speculation*, *Collaborative Formation of Issues*, and *Engaging Things* – the book develops readers’ understanding of the central theoretical and methodological aspects of future knowledge production in design anthropology. Bringing together renowned scholars such as George Marcus and Alison Clarke with young experimental design anthropologists from countries such as Denmark, Sweden, Austria, Brazil, the UK, and the United States, the sixteen chapters offer an unparalleled breadth of theoretical reflections and rich empirical case studies. Written by those at the forefront of the field, *Design Anthropological Futures* is destined to become a defining text for this growing discipline. A unique resource for students, scholars,

and practitioners in design anthropology, design, architecture, material culture studies, and related fields.

Exam board: OCR Level: A-level Subject: Design and Technology First teaching: September 2015 First exams: Summer 2016  
Inspire your students to tackle the iterative design process with creativity and confidence, using a textbook that delivers the knowledge, understanding and skills they need for the 2017 OCR Design & Technology AS and A-level specifications. Our trusted author team help you to confidently navigate both the designing and technical principles at the heart of OCR's enquiry approach and to apply them to each of the Product Design, Fashion and Textiles and Design Engineering endorsed titles. - Supports co-teaching of AS and A Level with clear signposting to the additional knowledge, understanding and skills needed at A Level - Inspires your students as they undertake the iterative design process, with a look at how to approach the Non-Exam Assessments, including creative examples of students' work for both the Product Development at AS and the Iterative Design Project at A Level - Helps students to prepare for the written exams with practice questions and guidance on the 'Principles' papers at both AS and A Level, and the 'Problem Solving' papers at A Level

The 5th Edition of Visualizing Environmental Science provides students with a valuable opportunity to identify and connect the central issues of environmental science through a visual approach. Beautifully illustrated, this fifth edition shows students what the discipline is all about—its main concepts and applications—while also instilling an appreciation and excitement about the richness of the subject. This edition is thoroughly refined and expanded; the visuals utilize insights from research on student learning and feedback from users.

As political, economic, and environmental issues increasingly spread across the globe, the science of geography is being rediscovered by scientists, policymakers, and educators alike. Geography has been made a core subject in U.S. schools, and scientists from a variety of disciplines are using analytical tools originally developed by geographers. Rediscovering Geography presents a broad overview of geography's renewed importance in a changing world. Through discussions and highlighted case studies, this book illustrates geography's impact on international trade, environmental change, population growth, information infrastructure, the condition of cities, the spread of AIDS, and much more. The committee examines some of the more significant tools for data collection, storage, analysis, and display, with examples of major contributions made by geographers. Rediscovering Geography provides a blueprint for the future of the discipline, recommending how to strengthen its intellectual and institutional foundation and meet the demand for geographic expertise among professionals and the public.

Inspiring people to care about the planet. In the new edition of LIVING IN THE ENVIRONMENT, authors Tyler Miller and Scott Spoolman have partnered with the National Geographic Society to develop a text designed to equip students with the inspiration and knowledge they need to make a difference solving today's environmental issues. Exclusive content highlights important work of National Geographic Explorers, and features over 200 new photos, maps, and illustrations that bring course concepts to life. Using sustainability as the integrating theme, LIVING IN THE ENVIRONMENT 18e, provides clear introductions to the multiple environmental problems that we face and balanced discussions to evaluate potential solutions. In addition to the integration of new

and engaging National Geographic content, every chapter has been thoroughly updated and 18 new Core Case Studies offer current examples of present environmental problems and scenarios for potential solutions. The concept-centered approach used in the text transforms complex environmental topics and issues into key concepts that students will understand and remember. Overall, by framing the concepts with goals for more sustainable lifestyles and human communities, students see how promising the future can be and their important role in shaping it. offers additional exclusive National Geographic content, including high-quality videos on important environmental problems and efforts being made to address them. Team up with Miller/Spoolman's, *LIVING IN THE ENVIRONMENT* and the National Geographic Society to offer your students the most inspiring introduction to environmental science available! Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

No matter what your actual job title, you are—or soon will be—a data worker. Every day, at work, home, and school, we are bombarded with vast amounts of free data collected and shared by everyone and everything from our co-workers to our calorie counters. In this highly anticipated follow-up to *The Functional Art*—Alberto Cairo's foundational guide to understanding information graphics and visualization—the respected data visualization professor explains in clear terms how to work with data, discover the stories hidden within, and share those stories with the world in the form of charts, maps, and infographics. In *The Truthful Art*, Cairo transforms elementary principles of data and scientific reasoning into tools that you can use in daily life to interpret data sets and extract stories from them. *The Truthful Art* explains:

- The role infographics and data visualization play in our world
- Basic principles of data and scientific reasoning that anyone can master
- How to become a better critical thinker
- Step-by-step processes that will help you evaluate any data visualization (including your own)
- How to create and use effective charts, graphs, and data maps to explain data to any audience

*The Truthful Art* is also packed with inspirational and educational real-world examples of data visualizations from such leading publications as *The New York Times*, *The Wall Street Journal*, *Estado de São Paulo* (Brazil), *Berliner Morgenpost* (Germany), and many more.

This book presents an overview of the key debates that took place during the Economic and Social Council meetings at the 2007 High-level Segment, at which ECOSOC organized its first biennial Development Cooperation Forum. The discussions also revolved around the theme of the second Annual Ministerial Review, "Implementing the internationally agreed goals and commitments in regard to sustainable development."--P. 4 of cover.

Since the first edition of this book was published, the subject of sustainability has risen to the forefront of thinking in almost every subject within business and management. Tackling the latest developments and integrating practical perspectives with rigorous research, this new edition sheds light on a vital aspect of working life. Current trends reveal that increasing intensity at work has major consequences at individual, organizational and societal levels. Sustainability in work systems thus requires a multi-stakeholder approach, emphasising a value-based choice to promote the concurrent development of various resources in the work system. This sustainability grows from intertwined individual and collective learning processes taking place within and between

organizations in collaboration. In exploring the development of sustainable work systems, this book analyzes these problems, and provides the basis for designing and implementing 'sustainable work systems' based on the idea of regeneration and the development of human and social resources. The authors, who are leading researchers and practitioners from around the world, consider the existing possibilities and emerging solutions and explore alternatives to intensive work systems.

The environment.

By the end of the twenty-first century it is thought that three-quarters of the world's population will be urban; our future is in cities. Making these cities healthy, vibrant and sustainable is an exceptional challenge which this book addresses. It sets out some of the basic principles of the design of our future cities and, through a series of carefully-selected case studies from leading designers' experience, illustrates how these ideas can be put into practice. Building on the first edition's original format of design guidance and case studies, this new edition updates the ideas and techniques resulting from further research and practice by the contributors. This book emphasises the enormous progress made towards exciting new designs that integrate good design with resource efficiency.

This book consists of chapters based on selected papers presented at the EcoDesign2015 symposium (9th International Symposium on Environmentally Conscious Design and Inverse Manufacturing). The symposium, taking place in Tokyo in December 2015, has been leading the research and practices of eco-design of products and product-related services since it was first held in 1999. The proceedings of EcoDesign2011 were also published by Springer. Eco-design of products and product-related services (or product life cycle design) are indispensable to realize the circular economy and to increase resource efficiencies of our society. This book covers the state of the art of the research and the practices in eco-design, which are necessary in both developed and developing countries. The chapters of the book, all of which were peer-reviewed, have been contributed by authors from around the world, especially from East Asia, Europe, and Southeast Asia. The features of the book include (1) coverage of the latest topics in the field, e.g., global eco-design management, data usage in eco-design, and social perspectives in eco-design; (2) an increased number of authors from Southeast Asian countries, with a greater emphasis on eco-design in emerging economies; (3) high-quality manuscripts, with the number of chapters less than half of that of the previous book.

Institutional Dynamics for Re-Engaging with Sustainability in the Anthropocene Era applies organization theory to a grand challenge: our entry into the Anthropocene era, a period marked not only by human impact on climate change, but on chemical waste, habitat destruction, and despeciation. It focuses on institutional theory, modified by political readings of organizations, as one approach that can help us navigate a new course. Besides offering mechanisms, such as institutional entrepreneurship, social movements, and policy shifts, the institutional-political variant developed here helps analysts understand the framing of scientific facts, the counter-mobilization of skeptics, and the creation of archetypes as new social orders.

This is the second book for J C Sum's "Unwritten: A Hands-off Book Test that Transcends Words." "Unwritten" is a professionally designed and produced book that allows you to bring the traditional book test beyond just words by incorporating visual drawings as the focus of the

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thoughts and revelations. It is perfect for performers looking to present a visual book test routine. The 260-page 5.5" x 8.5" book is in the form of an English language guide for travelers which gives motivation for the book content, layout and format. From a presentation point of view, the English language guide for travelers also allows for a variety of interesting introductory patter presentations. The nature of the book makes it perfect for shows for corporate events, travel fairs, tourist attractions, cruise ships, schools & libraries. The full "Unwritten" routine consists of two different basic effects. Effect 1 - Any Word Drawing A spectator opens the book to any page and chooses a word describing something that she can visualize in her mind. Without asking for the page number or any specifics of the word (such as the length of the word or the letters it contains), the performer correctly draws out the image that the spectator is visualizing. Effect 2 - Imagined Drawing Prediction A spectator opens the book to any page and mentally selects a word from the last line of a chosen paragraph. She makes a simple drawing that represents the word and then uses her imagination to add to the sketch to make it into a larger picture. A sealed envelope that has been in full view from the start of the show is opened to reveal a prediction drawing that correctly matches the spectator's imagined drawing! Note: Instead of a prediction, you can perform the effect as a drawing duplication. Both effects can be performed individually or together to form a complete routine. The routine can be performed in casual settings or close-up, parlour and large-scale stage shows. "Unwritten" includes the following features: - Can be Performed Completely Hands Free - The Book Can be Freely Examined During Performance - No Pumping for Page Numbers, Length of Word or Specific Letters - No Peeks - No Switches - No Pre-Show Work - No Sleight of Hand - No Memory Work or Cribs - No Assistants - Large Fonts Make the Text Easy to Read - Can Be Performed Stand-Alone or with Other Book Tests

This edited book presents cutting edge international research in operations management sustainability and topical research themes. As the sustainability agenda gains greater prominence and momentum throughout society, business actors and stakeholders are increasingly concerned with the impact of current business operations. There is a growing need for OM research and practice which reflects these concerns. Based on demands from industry and society at large, universities and schools now develop academic programs which are meant to serve this need – yet there is no clear and manifest research program concerning OM and sustainability. This book is of use to both researchers orientating themselves in this new and exciting field and educators seeking inspiration to develop new courses.

Climate change: watershed or endgame? In this compelling new book, Noam Chomsky, the world's leading public intellectual, and Robert Pollin, a renowned progressive economist, map out the catastrophic consequences of unchecked climate change—and present a realistic blueprint for change: the Green New Deal. Together, Chomsky and Pollin show how the forecasts for a hotter planet strain the imagination: vast stretches of the Earth will become uninhabitable, plagued by extreme weather, drought, rising seas, and crop failure. Arguing against the misplaced fear of economic disaster and unemployment arising from the transition to a green economy, they show how this bogus concern encourages climate denialism. Humanity must stop burning fossil fuels within the next thirty years and do so in a way that improves living standards and opportunities for working people. This is the goal of the Green New Deal and, as the authors make clear, it is entirely feasible. Climate change is an emergency that cannot be ignored. This book shows how it can be overcome both politically and economically.

Written for students and practitioners of social entrepreneurship, this text is about the opportunity and challenge of applying leadership skills and entrepreneurial talents creatively and appropriately to create social value.

Phoenix, Arizona is one of America's fastest growing metropolitan regions. It is also its least sustainable one, sprawling over a thousand square miles, with a population of four and a half million, minimal rainfall, scorching heat, and an insatiable appetite for unrestrained growth and unrestricted property rights. In *Bird on Fire*, eminent social and cultural analyst Andrew Ross focuses on the prospects for sustainability

in Phoenix--a city in the bull's eye of global warming--and also the obstacles that stand in the way. Most authors writing on sustainable cities look at places that have excellent public transit systems and relatively high density, such as Portland, Seattle, or New York. But Ross contends that if we can't change the game in fast-growing, low-density cities like Phoenix, the whole movement has a major problem. Drawing on interviews with 200 influential residents--from state legislators, urban planners, developers, and green business advocates to civil rights champions, energy lobbyists, solar entrepreneurs, and community activists--Ross argues that if Phoenix is ever to become sustainable, it will occur more through political and social change than through technological fixes. Ross explains how Arizona's increasingly xenophobic immigration laws, science-denying legislature, and growth-at-all-costs business ethic have perpetuated social injustice and environmental degradation. But he also highlights the positive changes happening in Phoenix, in particular the Gila River Indian Community's successful struggle to win back its water rights, potentially shifting resources away from new housing developments to producing healthy local food for the people of the Phoenix Basin. Ross argues that this victory may serve as a new model for how green democracy can work, redressing the claims of those who have been aggrieved in a way that creates long-term benefits for all. *Bird on Fire* offers a compelling take on one of the pressing issues of our time--finding pathways to sustainability at a time when governments are dismally failing in their responsibility to address climate change.

As the use of remote work has recently skyrocketed, digital transformation within the workplace has gone under a microscope, and it has become abundantly clear that the incorporation of new technologies in the workplace is the future of business. These technologies keep businesses up to date with their capabilities to perform remote work and make processes more efficient and effective than ever before. In understanding digital transformation in the workplace there needs to be advanced research on technology, organizational change, and the impacts of remote work on the business, the employees, and day-to-day work practices. This advancement to a digital work culture and remote work is rapidly undergoing major advancements, and research is needed to keep up with both the positives and negatives to this transformation. The Research Anthology on Digital Transformation, Organizational Change, and the Impact of Remote Work contains hand-selected, previously published research that explores the impacts of remote work on business workplaces while also focusing on digital transformation for improving the efficiency of work. While highlighting work technologies, digital practices, business management, organizational change, and the effects of remote work on employees, this book is an all-encompassing research work intended for managers, business owners, IT specialists, executives, practitioners, stakeholders, researchers, academicians, and students interested in how digital transformation and remote work is affecting workplaces.

Praise for the first edition: 'This book should be of interest to anyone interested in sustainable development, and especially sustainability indicators. Bell and Morse easily succeed in exposing the fundamental paradoxes of these concepts and, more importantly, they offer us a way forward. Readers ... will find their practical recommendations for those attempting to do sustainability analysis in the field most welcome, which is also the book's greatest strength.' *Local Environment: The International Journal of Justice and Sustainability* 'This book makes a valuable contribution to the theory and practice of using indicators for sustainability. It introduces systems ideas and a range of tools and techniques that have the potential to broaden and deepen our understanding of a whole range of complex situations. Well worth a closer look.' Christine Blackmore, Open University 'This is a book that explores new ways of thinking about how to measure sustainability... It offers stimulating food for thought for environmental educators and researchers.' *Environmental Education Research* 'This book tells me, as an SI 'practitioner', where I have been and why, and more importantly how I should be thinking in order to effectively present to and empower the

local community in the years ahead.' David Ellis, Principal Pollution Monitoring Officer, Norwich City Council 'A practical guide to the development of sustainability indicators which offers a systemic and participative way to use them at local scale. Our preliminary results are highly positive and the approach is applicable in many contexts.' Elisabeth Coudert, Programme Officer Prospective and Regional Development, Blue Plan The groundbreaking first edition of Sustainability Indicators reviewed the development and value of sustainability indicators and discussed the advantage of taking a holistic and qualitative approach rather than focusing on strictly quantitative measures. In the new edition the authors bring the literature up to date and show that the basic requirement for a systemic approach is now well grounded in the evidence. They examine the origins and development of Systemic Sustainability Analysis (SSA) as a theoretical approach to sustainability which has been developed in practice in a number of countries on an array of projects since the first edition. They look at how SSA has evolved into the practical approaches of Systemic Prospective Sustainability Analysis (SPSA) and IMAGINE, and, in particular, how a wide range of participatory methodologies have been adopted over the years. They also provide an assessment of the strengths and weaknesses of projects that undertake work in the general field of sustainable development.

Sustainability Principles and Practice gives an accessible and comprehensive overview of the interdisciplinary field of sustainability. The focus is on furnishing solutions and equipping students with both conceptual understanding and technical skills. Each chapter explores one aspect of the field, first introducing concepts and presenting issues, then supplying tools for working toward solutions. Elements of sustainability are examined piece by piece, and coverage ranges over ecosystems, social equity, environmental justice, food, energy, product life cycles, cities, and more. Techniques for management and measurement as well as case studies from around the world are provided. The 3rd edition includes greater coverage of resilience and systems thinking, an update on the Anthropocene as a formal geological epoch, the latest research from the IPCC, and a greater focus on diversity and social equity, together with new details such as sustainable consumption, textiles recycling, microplastics, and net-zero concepts. The coverage in this edition has been expanded to include issues, solutions, and new case studies from around the world, including Europe, Asia, and the Global South. Chapters include further reading and discussion questions. The book is supported by a companion website with online links, annotated bibliography, glossary, white papers, and additional case studies, together with projects, research problems, and group activities, all of which focus on real-world problem-solving of sustainability issues. This textbook is designed to be used by undergraduate college and university students in sustainability degree programs and other programs in which sustainability is taught.

This timely book provides a thorough introduction to the inter-relationship of food and the environment. Its primary purpose is to bring to our attention the multiplicity of linkages and interconnections between what we eat and how this impacts on the earth's resources. Having a better idea of the consequences of our food choices might encourage us to develop more sustainable practices of production and consumption in the decades ahead. Although human societies



have, over time, brought under control a large proportion of the earth's resources for the purpose of food production, we remain subject to the effective functioning of global ecosystem services. The author highlights the vital importance of these services and explains why we should be concerned about the depletion of freshwater resources, soil fertility decline and loss of biological diversity. The book also tackles some of the enormous challenges of our era: climate change – to which the agri-food system is both a major contributor and a vulnerable sector – and the prospect of significantly higher energy prices, arising from the peaking of oil and gas supplies which will reveal how dependent the food system has become upon cheap fossil fuels. Such challenges are likely to have significant implications for the long-term functioning of global supply chains and raise profound questions regarding the nutritional security of the world's population. Taken together the book argues that a re-examination of the assumptions and practices underpinning the contemporary food system is urgently required. *Environment and Food* is a highly original, inter-disciplinary and accessible text that will be of interest to students and the wider public genuinely interested in and concerned by the state of the world's food provisioning system. It is richly illustrated with figures and makes extensive use of boxes to highlight relevant examples. As technology erodes the impact of time and distance, more and more people live and work across cultures. This book equips readers with the tools to embrace the richness and beauty brought by cultural diversity, and ultimately engage with the key skills for thriving in today's fast-paced, highly interconnected and interdependent world.

*Communicating Sustainability* is a book of evidence-based strategies for making sustainability vivid, accessible, and comprehensible. To do this, it brings together research from a range of specialties including cognitive psychology, visual perception, communication studies, environmental design, interpretive exhibit design, interpretive signage, wayfinding, storytelling, courtroom litigation, information graphics, and graphic design to illustrate not only what approaches are effective but why they work as they do. The topic of sustainability is vast and complex. It interconnects multiple dimensions of human culture and the biosphere and involves a myriad of systems and processes, many of which are too large, too small, too fast, or too slow to see. Many people find verbal explanations about all of this too abstract or too complicated to understand, and for most people the concepts of sustainability are regarded as quirky, peripheral, and not essential to everyday life. Yet the challenges of sustainability concern the very survival of most species of life on Earth, including the human species. In order for life as we know it to survive and thrive into the future, sustainability must become broadly understood—by everyone, not just activists or specialists. This book offers tools to help make complex systems and nuanced, abstract ideas concrete and comprehensible to the broadest range of people. The goal of communication, and of this book, is to build understanding.

Voluntary sustainability standards (VSS) and other private governance instruments (e.g., Fair Trade, Forest Stewardship

Council, Fair Wear Foundation, GLOBALGAP) are increasingly regulating global production processes and economic activities. VSS verify the compliance of products or production processes with sustainability standards. The importance of voluntary sustainability standards is now widely recognized. After being operational for more than two decades, they have established themselves as private governance instruments. This recognition is also exemplified by their integration in public regulatory approaches. Governments and international organizations are partnering with voluntary sustainability standards to pursue sustainable development policies. We witness the integration of VSS in the regulatory approaches of local and national governments in countries around the world, the integration of VSS in trade policies, the emergence of public–private initiatives to govern global supply chains, and the inclusion of private initiatives in experimentalist governance regimes. This Special Issue seeks to bring together research on the interface between private and public governance. We welcome contributions which analyze specific case studies on the emergence and development of these private–public interactions, the design of public–private governance, the effectiveness of these governance arrangements, and critical perspectives on the possibilities and limitations of such public–private forms of governance. We welcome multi-disciplinary perspectives including contributions from economics, political science, law, sociology, geography, and anthropology. Papers selected for this Special Issue are subject to a peer review procedure with the aim of rapid and wide dissemination of research results, developments, and applications.

Our planet is undergoing radical environmental and social changes. Sustainability has now been put into question by, for example, our consumption patterns, loss of biodiversity, depletion of resources, and exploitative power relations. With apparent ecological and social limits to globalization and development, current levels of consumption are unsustainable, inequitable, and inaccessible to the majority of humans. Understanding and attaining sustainability is a crucial matter at a time when our planet is in peril--environmentally, economically, socially, and politically. Since its official inception in the 1970s, environmental sociology has provided a powerful lens to understanding the challenges, possibilities and modes of sustainability. Most chapters in this book were published as peer-reviewed articles in Sustainability in its special issue "Sustainability through the Lens of Environmental Sociology," providing an environmental sociology approach to understanding and achieving the widely used notion of "sustainability." This edited collection covers, among other topics, the inherent discursive formations of environmental sociology, conceptual tools and paradoxes, competing theories and practices, and their complex implications on our society at large. Chapters in this book specifically focus on how sustainable development has been understood through different theoretical lenses in environmental sociology, such as ecological modernization, policy/reformist sustainable development, and critical structural approaches (such as the treadmill of production, ecological Marxism, metabolic rift theory, etc.); and how sustainable development has been

practiced in, or by, various stakeholders, such as states, corporations, and local communities, for various ends, through the use of specific case studies, showing, for example, the discursive shifts, dynamic formations, and diverse contours of sustainable development. The range of relevant topics includes: - Environmental sociology as a field of inquiry for sustainability - Historical context of sustainable development in environmental sociology - Nature-society relationship in environmental sociology - Theories/approaches to sustainability discourse in environmental sociology - Environmentalism/environmental movements for sustainability - Empirical cases (such as climate change, biodiversity, food, certification, etc.) through the lens of environmental sociology

Includes 159 color images. Baodingshan consists of a monastic complex and two rock-carved areas, Little Buddha Bend and Great Buddha Bend, located in Dazu in western China and dates from the Southern Song period. The complex is fundamentally different from earlier Buddhist rock-carved sites in China in its construction and layout. Foregoing traditional niche-based iconography for large, deeply cut reliefs reaching dimensions as great as eight meters high by twenty meters wide, within Baodingshan's Great Buddha Bend, the carved works flow from one tableau into another. The site contains both texts and images related to the main schools of Buddhist thought. This book presents an integrated analysis of all of the components of Great Buddha Bend within the greater Baodingshan site, something that was lacking in earlier studies. Written to provide guidance to the site for a wide spectrum of readers-specialists and non-specialists alike-it provides a clear explanation of the major iconographic features of the imagery as well as translations of the numerous accompanying carved Buddhist texts. It also presents the basic tenets of Pure Land, Chan [Zen], Huayan and Esoteric Buddhism in order to explain the features of these sects as seen represented in visual as well as textual form at the site. Lastly, with its focus on ritual use and audience reception from the 12th to the 21st century, this study provides a new model for the discussion and evaluation of other religious sites as entities that organically evolve over time. This study also includes new translations of both the inscribed Buddhist texts and secular inscriptions carved at the site dating from the twelfth through the twenty-first centuries-inscriptions left by educated elite, soldiers, and government officials, highlighting regional issues related to continuity and change made visible at Baodingshan.

This book investigates the potential contribution that a strategic design approach can make to stimulating and supporting the societal embedding of sustainable PSSs (product-service systems). A new strategic design role thus emerges; a role in which the ideation and development of sustainable PSS concepts is coupled with the designing of appropriate transition paths (sequence of socio-technical experiments) to gradually incubate, introduce and diffuse these concepts. The book also outlines the new design approach and capabilities needed by strategic designers, project managers and consultants to operate at such a strategic level. On a more operational point of view, the work presents a practical “how

to do” design process and associated guidelines to support practitioners in designing and managing the societal embedding process of sustainable PSS innovations.

This volume consists of 52 peer-reviewed papers, presented at the International Conference on Sustainable Design and Manufacturing (SDM-19) held in Budapest, Hungary in July 2019. Leading-edge research into sustainable design and manufacturing aims to enable the manufacturing industry to grow by adopting more advanced technologies, and at the same time improve its sustainability by reducing its environmental impact. The topic includes the sustainable design of products and services; the sustainable manufacturing of all products; energy efficiency in manufacturing; innovation for eco-design; circular economy; industry 4.0; industrial metabolism; automotive and transportation systems. Application areas are wide and varied. The book will provide an excellent overview of the latest developments in the Sustainable Design and Manufacturing Area.

This book is a cornerstone resource for a wide range of organizations and individuals concerned with sustainable development at national and local levels, as well as for international organizations concerned with supporting such development. While the focus is on integrated strategies for sustainable development, the approaches and methods covered are equally relevant to poverty reduction, environmental and sectoral strategies, program development and review. Agenda 21 called for all countries to develop sustainable development strategies. For such strategies to be effective there needs to be a real commitment. In every country, government at all levels, the private sector and civil society must work together in a true partnership, in transparent ways which enable genuine stakeholder participation. The necessary mechanisms and processes need to be coordinated to enable continuous learning and improvement. This resource book provides flexible, non-prescriptive guidance on how to develop, assess and implement national sustainable development strategies. It sets out principles and ideas on process and methods, and suggests how these can be used. It is based on an analysis of past and current practice, drawing directly from experience in both developed and developing countries. Following a discussion of the nature and challenges of sustainable development and the need for strategic responses to them, the heart of the book covers the main tasks in strategy processes. Individual chapters offer a rich range of guidance, ideas and case studies on:

- \* The nature of sustainable development strategies and current practice
- \* Key steps in starting, managing and improving sustainable development strategies
- \* Analysis of and for sustainable development
- \* Participation for sustainable development
- \* Information, education and communications
- \* Strategy decision-making frameworks and procedures
- \* The financial basis for strategies
- \* Monitoring and evaluation systems.

As a cultivated form of invention, product design is a deeply human phenomenon that enables us to shape, modify and

alter the world around us – for better or worse. The recent emergence of the sustainability imperative in product design compels us to recalibrate the parameters of good design in an unsustainable age. Written by designers, for designers, the Routledge Handbook of Sustainable Product Design presents the first systematic overview of the burgeoning field of sustainable product design. Brimming with intelligent viewpoints, critical propositions, practical examples and rich theoretical analyses, this book provides an essential point of reference for scholars and practitioners at the intersection of product design and sustainability. The book takes readers to the depth of our engagements with the designed world to advance the social and ecological purpose of product design as a critical twenty-first-century practice. Comprising 35 chapters across 6 thematic parts, the book's contributors include the most significant international thinkers in this dynamic and evolving field.

Historically, regulations governing chemical use have often focused on widely used chemicals and acute human health effects of exposure to them, as well as their potential to cause cancer and other adverse health effects. As scientific knowledge has expanded there has been an increased awareness of the mechanisms through which chemicals may exert harmful effects on human health, as well as their effects on other species and ecosystems. Identification of high-priority chemicals and other chemicals of concern has prompted a growing number of state and local governments, as well as major companies, to take steps beyond existing hazardous chemical federal legislation. Interest in approaches and policies that ensure that any new substances substituted for chemicals of concern are assessed as carefully and thoroughly as possible has also burgeoned. The overarching goal of these approaches is to avoid regrettable substitutions, which occur when a toxic chemical is replaced by another chemical that later proved unsuitable because of persistence, bioaccumulation, toxicity, or other concerns. Chemical alternative assessments are tools designed to facilitate consideration of these factors to assist stakeholders in identifying chemicals that may have the greatest likelihood of harm to human and ecological health, and to provide guidance on how the industry may develop and adopt safer alternatives. A Framework to Guide Selection of Chemical Alternatives develops and demonstrates a decision framework for evaluating potentially safer substitute chemicals as primarily determined by human health and ecological risks. This new framework is informed by previous efforts by regulatory agencies, academic institutions, and others to develop alternative assessment frameworks that could be operationalized. In addition to hazard assessments, the framework incorporates steps for life-cycle thinking - which considers possible impacts of a chemical at all stages including production, use, and disposal - as well as steps for performance and economic assessments. The report also highlights how modern information sources such as computational modeling can supplement traditional toxicology data in the assessment process. This new framework allows the evaluation of the full range of benefits and shortcomings of

substitutes, and examination of tradeoffs between these risks and factors such as product functionality, product efficacy, process safety, and resource use. Through case studies, this report demonstrates how different users in contrasting decision contexts with diverse priorities can apply the framework. This report will be an essential resource to the chemical industry, environmentalists, ecologists, and state and local governments.

This comprehensive volume - containing 27 chapters and contributions from six continents - presents and discusses key principles, perspectives, and practices of social learning in the context of sustainability. Social learning is explored from a range of fields challenged by sustainability including: organizational learning, environmental management and corporate social responsibility; multi-stakeholder governance; education, learning and educational psychology; multiple land-use and integrated rural development; and consumerism and critical consumer education. An entire section of the book is devoted to a number of reflective case studies of people, organizations and communities using forms of social learning in moving towards sustainability.

A modern fable with an urgent message for young environmentalists. Lynne Cherry journeyed deep into the rain forests of Brazil to write and illustrate this gorgeous picture book about a man who exhausts himself trying to chop down a giant kapok tree. While he sleeps, the forest's residents, including a child from the Yanomamo tribe, whisper in his ear about the importance of trees and how "all living things depend on one another" . . . and it works. Cherry's lovingly rendered colored pencil and watercolor drawings of all the "wondrous and rare animals" evoke the lush rain forests. Features stunning world maps bordered by detailed illustrations of fascinating rainforest creatures. An IRA Teacher's Choice (1991), ABA's Pick of the Lists, Reading Rainbow Review Book, NSTA-CBC Outstanding Trade Book for Children.

Cause and Effect Visualizing Sustainability Die Gestalten Verlag-DGV

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