

2014 2015 Quarterly Science Benchmark Assessment Qsba

Society in Focus: An Introduction to Sociology, Ninth Edition, is intended for the introduction to sociology course taught at the freshman/sophomore level.

We live on a dynamic Earth shaped by both natural processes and the impacts of humans on their environment. It is in our collective interest to observe and understand our planet, and to predict future behavior to the extent possible, in order to effectively manage resources, successfully respond to threats from natural and human-induced environmental change, and capitalize on the opportunities " social, economic, security, and more " that such knowledge can bring. By continuously monitoring and exploring Earth, developing a deep understanding of its evolving behavior, and characterizing the processes that shape and reshape the environment in which we live, we not only advance knowledge and basic discovery about our planet, but we further develop the foundation upon which benefits to society are built. Thriving on Our Changing Planet presents prioritized science, applications, and observations, along with related strategic and programmatic guidance, to support the U.S. civil space Earth observation program over the coming decade.

Shortlisted for the 2018 Royal Society Investment Science Book Prize A look inside the algorithms that are shaping our lives and the dilemmas they bring with them. If you were accused of a crime, who would you rather decide your sentence—a mathematically consistent algorithm incapable of empathy or a compassionate human judge prone to bias and error? What if you want to buy a driverless car and must choose between one programmed to save as many lives as possible and another that prioritizes the lives of its own passengers? And would you agree to share your family's full medical history if you were told that it would help researchers find a cure for cancer? These are just some of the dilemmas that we are beginning to face as we approach the age of the algorithm, when it feels as if the machines reign supreme. Already, these lines of code are telling us what to watch, where to go, whom to date, and even whom to send to jail. But as we rely on algorithms to automate big, important decisions—in crime, justice, healthcare, transportation, and money—they raise questions about what we want our world to look like. What matters most: Helping doctors with diagnosis or preserving privacy? Protecting victims of crime or preventing innocent people being falsely accused? Hello World takes us on a tour through the good, the bad, and the downright ugly of the algorithms that surround us on a daily basis. Mathematician Hannah Fry reveals their inner workings, showing us how algorithms are written and implemented, and demonstrates the ways in which human bias can literally be written into the code. By weaving in relatable, real world stories with accessible explanations of the underlying mathematics that power algorithms, Hello World helps us to determine their power, expose their limitations, and examine whether they really are improvement on the human systems they replace.

The Conference for E-Democracy and Open Government (CeDEM) brings together experts from academia, public authorities, developers and practitioners. The CeDEM proceedings present the essence of academic and practical knowledge on e-democracy and open government. The reflections, the workshops and the PhD papers found in these proceedings reveal the newest developments, trends, tools and procedures, and show the many ways that these impact society and Democracy.

Fundamentals of Entrepreneurial Finance provides a comprehensive introduction to entrepreneurial finance, showing how entrepreneurs and investors jointly turn ideas into valuable high-growth start-ups. Marco Da Rin and Thomas Hellmann examine the challenges entrepreneurs face in obtaining funding and the challenges investors face in attracting promising ventures. They follow the joint journey of entrepreneurs and investors from initial

match to the eventual success or failure of the venture. Written with the goal of making entrepreneurial finance accessible, this book starts with the basics, develops advanced topics, and derives practical insights. Da Rin and Hellmann build on academic foundations from several disciplines and enrich the text with data, mini-cases, examples, and exercises.

The effective use of school resources is a policy priority across OECD countries. The OECD Reviews of School Resources explore how resources can be governed, distributed, utilised and managed to improve the quality, equity and efficiency of school education.

Complete proceedings of the 15th European Conference on eGovernment Portsmouth UK
Published by Academic Conferences and Publishing International Limited

This is a monumental reference for the theory and practice of computer security.

Comprehensive in scope, this text covers applied and practical elements, theory, and the reasons for the design of applications and security techniques. It covers both the management and the engineering issues of computer security. It provides excellent examples of ideas and mechanisms that demonstrate how disparate techniques and principles are combined in widely-used systems. This book is acclaimed for its scope, clear and lucid writing, and its combination of formal and theoretical aspects with real systems, technologies, techniques, and policies.

The most fascinating and profitable subject of predictive algorithms is the human actor.

Analysing big data through learning algorithms to predict and pre-empt individual decisions gives a powerful tool to corporations, political parties and the state. Algorithmic analysis of digital footprints, as an omnipresent form of surveillance, has already been used in diverse contexts: behavioural advertising, personalised pricing, political micro-targeting, precision medicine, and predictive policing and prison sentencing. This volume brings together experts to offer philosophical, sociological, and legal perspectives on these personalised data practices. It explores common themes such as choice, personal autonomy, equality, privacy, and corporate and governmental efficiency against the normative frameworks of the market, democracy and the rule of law. By offering these insights, this collection on data-driven personalisation seeks to stimulate an interdisciplinary debate on one of the most pervasive, transformative, and insidious socio-technical developments of our time.

Science, engineering, and technology permeate nearly every facet of modern life and hold the key to solving many of humanity's most pressing current and future challenges. The United States' position in the global economy is declining, in part because U.S. workers lack fundamental knowledge in these fields. To address the critical issues of U.S. competitiveness and to better prepare the workforce, A Framework for K-12 Science Education proposes a new approach to K-12 science education that will capture students' interest and provide them with the necessary foundational knowledge in the field. A Framework for K-12 Science Education outlines a broad set of expectations for students in science and engineering in grades K-12. These expectations will inform the development of new standards for K-12 science education and, subsequently, revisions to curriculum, instruction, assessment, and professional development for educators. This book identifies three dimensions that convey the core ideas and practices around which science and engineering education in these grades should be built. These three dimensions are: crosscutting concepts that unify the study of science through their common application across science and engineering; scientific and engineering practices; and disciplinary core ideas in the physical sciences, life sciences, and earth and space sciences and for engineering, technology, and the applications of science. The overarching goal is for all high school graduates to have sufficient knowledge of science and engineering to engage in public discussions on science-related issues, be careful consumers of scientific and technical information, and enter the careers of their choice. A Framework for K-12 Science Education is the first step in a process that can inform state-level decisions and achieve a research-grounded basis for improving science instruction and learning across the country. The book will guide standards developers, teachers, curriculum designers, assessment developers, state

and district science administrators, and educators who teach science in informal environments. Assessments, understood as tools for tracking what and how well students have learned, play a critical role in the classroom. Developing Assessments for the Next Generation Science Standards develops an approach to science assessment to meet the vision of science education for the future as it has been elaborated in A Framework for K-12 Science Education (Framework) and Next Generation Science Standards (NGSS). These documents are brand new and the changes they call for are barely under way, but the new assessments will be needed as soon as states and districts begin the process of implementing the NGSS and changing their approach to science education. The new Framework and the NGSS are designed to guide educators in significantly altering the way K-12 science is taught. The Framework is aimed at making science education more closely resemble the way scientists actually work and think, and making instruction reflect research on learning that demonstrates the importance of building coherent understandings over time. It structures science education around three dimensions - the practices through which scientists and engineers do their work, the key crosscutting concepts that cut across disciplines, and the core ideas of the disciplines - and argues that they should be interwoven in every aspect of science education, building in sophistication as students progress through grades K-12. Developing Assessments for the Next Generation Science Standards recommends strategies for developing assessments that yield valid measures of student proficiency in science as described in the new Framework. This report reviews recent and current work in science assessment to determine which aspects of the Framework's vision can be assessed with available techniques and what additional research and development will be needed to support an assessment system that fully meets that vision. The report offers a systems approach to science assessment, in which a range of assessment strategies are designed to answer different kinds of questions with appropriate degrees of specificity and provide results that complement one another. Developing Assessments for the Next Generation Science Standards makes the case that a science assessment system that meets the Framework's vision should consist of assessments designed to support classroom instruction, assessments designed to monitor science learning on a broader scale, and indicators designed to track opportunity to learn. New standards for science education make clear that new modes of assessment designed to measure the integrated learning they promote are essential. The recommendations of this report will be key to making sure that the dramatic changes in curriculum and instruction signaled by Framework and the NGSS reduce inequities in science education and raise the level of science education for all students.

This volume provides an overview of the ways the Italian school of quality of life studies addresses well-being and quality of life, from both a substantive and a methodological point of view. It discusses various topics such as those of equitable and sustainable wellbeing, lifestyles, the organization of economy and welfare, as well as aspects related to the measurement of quality of life in small towns, institutional transparency and corruption prevention indicators. Chapters presented in this volume are drawn from papers presented at the conferences of the Italian Association for Quality of Life Studies (AIQUAV) held in Florence, Italy, in 2015 and 2016. The volume is organised into three parts. The first part is devoted to methods and indicators for research on quality of life, the second part to social sustainability, lifestyles, cultural aspects and local applications, and the third to economy, welfare and quality of life. The volume hosts contributions that are interdisciplinary in scope and mirror the complexity of the globalized world.

The Paralympic Games is the second largest multi-sport festival on earth and an event which poses profound and challenging questions about the nature of sport, disability and society. The Paralympic Games Explained is the first complete introduction to the Paralympic phenomenon, exploring every key aspect and issue, from the history and development of the Paralympic

movement to the economic and social impact of the contemporary Games. Now in a fully revised and updated second edition, it includes new material on hosting and legacy, Vancouver 2010 to Rio 2016, sport for development, and case studies of an additional ten Paralympic nations. Drawing on a range of international examples, it discusses key issues such as: • how societal attitudes influence disability sport • the governance of Paralympic and elite disability sport • the relationship between the Paralympics and the Olympics • drugs and technology in disability sport • classification in disability sport. Containing useful features including review questions, study activities, web links and guides to further reading throughout, *The Paralympic Games Explained* is the most accessible and comprehensive guide to the Paralympics currently available. It is essential reading for all students with an interest in disability sport, sporting mega-events, the politics of sport, or disability in society. Provides a broad base of quantitative info. about U.S. science, engin., and technology. Because of the spread of scientific and tech. capabilities around the world, this report presents a significant amount of material about these internat. capabilities and analyzes the U.S. position in this broader context. Contains quantitative analyses of key aspects of the scope, quality, and vitality of the Nation's science and engineering (S&E) enterprise. It presents info. on science, math, and engineering. educ. at all levels; the S&E workforce; U.S. internat. R&D perform. and competitiveness in high tech.; and public attitudes and understanding of S&E. Also info. on state-level S&E indicators. Presents the key themes emerging from these analyses. Illus.

This book argues that the science of reasoning will prove most useful if focused on studying what human reasoning does best - understanding people. Bonnefon argues that humanity's unique reasoning abilities developed in order to handle the complexities of cooperative social life. Accordingly, human beings became exquisite students of the minds of other people to predict the kind of decisions they make, and assess their character. In particular, this volume explores the inferences humans make about the moral character of others, how they delude themselves about their own moral character, and the ways in which they can see through the delusions of others. In conclusion, the book considers how to leverage the power of human reasoning in order to sustain democratic life. This work will interest scholars and students working in fields including theory of mind, decision-making, moral cognition, critical thinking, experimental philosophy, and behavioural economics, as well as policy makers interested in how reasoning impacts our political understanding.

This book examines twenty-five years of the Australian framework for student equity in higher education, *A Fair Chance for All*. Divided into two sections, the book reflects on the legacy of equity policy in higher education, the effectiveness of current approaches, and the likely challenges facing future policymakers. The first section explores the creation of the framework, including the major elements of the policy, the political context of its development, and how it compares with international models developed during the same period. The performance of the six student equity groups identified within the framework is also examined. The second section of the book considers future trends and challenges. The Australian university sector has undergone seismic change in the past twenty-five years and faces further changes of equal magnitude. The twenty-fifth anniversary of *A Fair Chance for All* comes as Australian higher education is poised for another wave of transformation, with rising expansion, competition, and stratification. While the emerging landscape is new, the questions have changed little since *A Fair Chance for All* was first conceived: How should we define student equity, and what policies are likely to promote it?

Pilgrimage in Practice: Narration, Reclamation and Healing provides an interdisciplinary approach to the topic. It reveals many aspects of the practice of pilgrimage, from its nationalistic facets to its effect on economic development; from the impact of the internet to questions of globalization; from pilgrimage as protest to pilgrimage as creative expression in

such media as film, art and literature. Perhaps best understood as a form of heritage tourism or tourism with a conscience, pilgrimage (as with touristic travel) contains a measure of transformation that is often deep and enduring, making it a fascinating area of study. Reviewing social justice in the context of pilgrimage and featuring a diverse collection of interdisciplinary voices from across the globe, this book is a rich collection of papers for researchers of pilgrimage and religious and heritage tourism.

Ethics and Values in Industrial-Organizational Psychology was one of the first books to integrate work from moral philosophy, moral psychology, I-O psychology, and political and social economy, as well as business. It incorporates these perspectives into a "framework for taking moral action" and presents a practical model for ethical decision making. The second edition has added a chapter on Virtue Theory, including its application in I-O, Organizational behavior (OB) and business; expands Moral Psychology to two chapters, with more attention to moral emotions, effects of the "dark side" of personality, and the intuitionist model of moral judgment; expands the sections on social and economic justice; and expands the treatment of the Responsible Conduct of Research with a new chapter on Research Integrity. Examples from I-O research and practice, as well as current business events, are offered throughout. It is ideal for ethics and I-O courses at the graduate level.

The field of Talent Management has grown and advanced exponentially over the past several years as organizations, large and small, public and private, global and domestic, have realized that to gain and sustain a global competitive advantage, they must manage their talents effectively. Talent Management has become a major theoretical and empirical topic of intellectual curiosity from various disciplinary perspectives, such as human resource management, arts and entertainment management, international management, etc. This Companion is an indispensable source that provides an authoritative, in-depth, and comprehensive examination of emerging Talent Management topics. Divided into five thematic sections that provide a unique overarching structure to organize forty-one chapters written by leading and renowned international scholars, this Companion assesses essential knowledge, trends, debates, and avenues for future research in a single volume: Evolution and Conceptualization of Talent Management; The External Context of Talent Management; The Internal Context of Talent Management; Individuals, Workforce, and Processes of Talent Management; and Outcomes of Talent Management. In this way, the Companion is essential reading for anyone involved in the scholarly study of Talent Management, including academic researchers, advanced postgraduate and graduate students, and management consultants. For further debate on Talent Management, readers might be interested in the supplementary volume Contemporary Talent Management: A Research Companion, sold separately.

This book addresses the roles and challenges of people who communicate science, who work with scientists, and who teach STEM majors how to write. In terms of practice and theory, chapters address themes encountered by scientists and communicators, including ethical challenges, visual displays, and communication with publics, as well as changed and changing contexts and genres. The pedagogy section covers topics important to instructors' everyday teaching as well as longer-term curricular development. Chapters address delivery of rhetorically informed instruction, communication from experts to the publics, writing assessment, online teaching, and communication-intensive pedagogies and curricula.

Sports are big business. Most companies want to expand into global markets, enhance their brand and understand varying market conditions. This textbook supports sports marketing students as they learn about the challenges and opportunities that are specific to the global sports industry. Written from the perspective of different stakeholders in the sports sector, such as fans, sports entity holders, clubs, sponsors and the sports media, it offers a holistic view of this evolving and ever-changing industry. Taking a truly global approach, this textbook helps students understand the current issues facing sports marketing professionals and is relevant

across all regions of the world. Drawing on the author's years of industry and teaching experience, it blends theory and practice with case studies including the International Olympic Committee and FIFA. Crucially, the book provides comprehensive coverage of hot topics such as sports governance, digital marketing, and the globalization of the sports product. Written in an accessible style and accompanied by a full suite of online resources, this textbook is for ideal for anyone looking to excel as a sports marketer or progress within the wider sports industry. It is a valuable resource for Sports Marketing courses at undergraduate, postgraduate and MBA levels.

This book addresses the rising productivity gap between the global frontier and other firms, and identifies a number of structural impediments constraining business start-ups, knowledge diffusion and resource allocation (such as barriers to up-scaling and relatively high rates of skill mismatch).

This book breaks new ground in the studies of green transition. It frames the ongoing transformation in terms of a "battle of modernities" with the emerging vision of ecomodernity as the final destination. It also offers a systematic exploration of the potential for extensive transformation of carbon-intensive sectors – with a focus on energy and transport – towards a low or post-carbon economy. The book does so in a comparative perspective, by pointing to a diversity of techno-economic and institutional solutions in the mature Western economies, and in the rapidly growing East and developing South. The contributors highlight a broad spectrum of available alternatives as well as illuminate conflicting interests involved. They also demonstrate how solutions to the climate challenge require parallel technological and governance innovation. The book advocates a new, overarching vision and agenda of ecomodernity – based on a synergistic paradigm-shift in industry, politics and culture – to trigger and sustain the ecological innovation necessary to tip development in a green direction. This vision cannot be monolithic; rather, it should reflect the diverse interests and conditions of the global population. This book is aimed at researchers and postgraduate students of energy, transport, environmental and climate policies, as well as development, environment, innovation and sustainability.

The main objectives of this book are to expose key aspects that have a relevance when dealing with open data viewed from different perspectives and to provide appealing examples of how open data is implemented worldwide. The concept of open data as we know it today is the result of many different initiatives, both of a legislative and non-legislative nature, and promoted by a wide range of actors. Numerous regulatory antecedents to foster the concept of open data and embed it in national and international policy agendas have been undertaken on both sides of the Atlantic, as well as at a supranational level. The book highlights a number of the efforts made to promote open data in Europe, Asia and the United States. In addition to new insights, practical guidance and multiple disciplinary perspectives on open data, the book also addresses the transformation of current developments towards open data, which may be referred to as the democratisation of data. This book will support open data practitioners as well as open data scholars in their endeavours to promote open data implementation and research. Bastiaan van Loenen is associate professor and director of the Knowledge Centre Open Data at the Faculty of Architecture and The Built Environment of Delft University of Technology in the Netherlands, as is Glenn Vancauwenberghe, who is a post-doctoral researcher, and Joep Cromptvoets is a professor at the Public Governance Institute of the KU Leuven in Belgium.

This book relies on the conceptual model of Open Government (OG), focusing on transparency and, concretely, in open data initiatives at the local government context with the aim of improving participation and collaboration. Most Open Government models are centered on three pillars: transparency, participation and collaboration. Transparency is a crucial ingredient of OG and, applied to data openness means to

ensure that the data are well known, comprehensible, easily accessible and open to all. new governance models based on different open data models have not been proposed up to now. The chapter authors seek to contribute recent research to the discussion on governance models of open data initiatives to support Open Governments with the aim of creating public value. It includes both theoretical and empirical studies on governments models in open data initiatives.

Controlling Capital examines three pressing issues in financial market regulation: the contested status of public regulation, the emergence of 'culture' as a proposed modality of market governance, and the renewed ascendancy of private regulation. In the years immediately following the outbreak of crisis in financial markets, public regulation seemed almost to be attaining a position of command – the robustness and durability of which is explored here in respect of market conduct, European Union capital markets union, and US and EU competition policies. Subsequently there has been a softening of command and a return to public-private co-regulation, positioned within a narrative on culture. The potential and limits of culture as a regulatory resource are unpacked here in respect of occupational and organisational aspects, stakeholder connivance and wider political embeddedness. Lastly the book looks from both appreciative and critical perspectives at private regulation, through financial market associations, arbitration of disputes and, most controversially, market 'policing' by hedge funds. Bringing together a distinguished group of international experts, this book will be a key text for all those concerned with issues arising at the intersection of financial markets, law, culture and governance.

This Selected Issues paper reviews West African Economic and Monetary Union's (WAEMU) regional macroeconomic surveillance framework to control all sources of debt accumulation and ensure debt sustainability. WAEMU's regional surveillance framework aims at ensuring the sustainability of national fiscal policies and their consistency with the common monetary policy. While fiscal deficits have been the main driver of public debt across WAEMU member countries, the size of residual factors has varied greatly among these countries. The WAEMU Macroeconomic Surveillance Framework would benefit from adjustments to more effectively set the region's public debt on a sustainable path. In addition, beyond adhering to the WAEMU fiscal deficit rule, member countries must curb below-the-budget-line operations. This would require improved monitoring of fiscal risks and the building of adequate budget provisions to address such risks before they materialize. Improved Treasury practices would also help eliminate the recourse to pre-financing arrangements and tighten control over expenditure. Public dissemination of the WAEMU progress report and strengthened peer-to-peer learning among member countries could improve the momentum for reforms.

Recent Developments in Asian Economics is a crucial resource of current, cutting-edge research for any scholar of international finance and economics. Chapters cover a wide range of topics, such as social welfare systems, organizational culture, sustainability, the impact of economic policy uncertainty, and more.

The research team makes the following forecasts: First, in 2013 China's growth will remain stable and reach 8.23 percent, an increase of 0.43 percentage points compared with the previous year; even though there is inflation pressure resulting from global monetary easing, severe inflation in China is unlikely to happen, and the consumer

price index (CPI) will remain at 3.11 percent. Second, the growth of imports and exports will rebound, but the trade surplus will decrease further. Finally, the share of investment in GDP will continue to be high in the short term as urbanization promotes the growth of fixed assets investment, though higher per capita incomes will result in high and steady consumption.

This book advances the understanding of the relationship between social inequality and Internet use by bringing forth a new, contextual approach. It encourages a rethinking of the information society theory, information policies, and the role of social science in the process of informatization.

Disruptive technology is one of the defining economic trends of our age, transforming one major industry after another. But what is the true impact of such disruption on the world's economies, and does it really have the potential to solve global problems such as low growth, inequality and environmental degradation? The provocative answer is that such disruption could indeed solve many of these issues, but that it won't... at least, not on its current trajectory. *A Good Disruption* highlights some of the huge costs that are at stake, and argues that managing such disruption will be the defining business challenge of the next decade. In order for us to meet that challenge, the book sets out a bold and inspirational vision for a more robust and sustainable economic model. Rich in relevant case studies, and incorporating industry examples from around the world, *A Good Disruption* accomplishes the remarkable feat of synthesizing key contemporary trends into a coherent world view of how to seize the potential of our collective futures. This is essential reading for policy makers, politicians, business executives and social scientists, as well as anyone who wants a deeper understanding of the impact of disruptive technology and how it can be transformed into a major force for the global good.

The most important element in every election is getting voters to the polls—these get-out-the-vote (GOTV) efforts make the difference between winning and losing office. With the first two editions of *Get Out the Vote*, Donald P. Green and Alan S. Gerber broke ground by introducing a new scientific approach to the challenge of voter mobilization that profoundly influenced how campaigns operate. *Get Out the Vote* has become the reference text for those who manage campaigns and study voter mobilization. In this expanded and updated edition, Green and Gerber incorporate data from more than 100 new studies, which shed new light on the costeffectiveness and efficiency of various campaign tactics, including door-to-door canvassing, email, direct mail, and telephone calls. Two new chapters focus on the effectiveness of registration drives and messaging tactics. The new *Get Out the Vote* will be available as the country gears up for the 2016 presidential campaign. This readable, practical guide on voter mobilization is sure to be an important resource for consultants, candidates, and grassroots organizations, as well as a valuable teaching tool in courses on campaigns and elections. Praise for Previous Editions: "Green and Gerber have studied turnout for years. Their findings, based on dozens of controlled experiments done as part of actual campaigns, are summarized in... *Get Out the Vote*, which is bound to become a bible for politicians and activists of all stripes." —Alan Krueger in the *New York Times* " *Get Out the Vote* shatters conventional wisdom about GOTV." —Hal Malchow in *Campaigns and Elections* "Green and Gerber's recent book represents important innovations in the study of turnout." — *Political Science Review* "Green and Gerber have provided a

valuable resource for grassroots campaigns across the spectrum." — National Journal
This new volume, edited by industrial and organizational psychologists, will look at the important topic of cyber security work in the US and around the world. With contributions from experts in the fields of industrial and organizational psychology, human factors, computer science, economics, and applied anthropology, the book takes the position that employees in cyber security professions must maintain attention over long periods of time, must make decisions with imperfect information with the potential to exceed their cognitive capacity, may often need to contend with stress and fatigue, and must frequently interact with others in team settings and multiteam systems. Consequently, psychosocial dynamics become a critical driver of cyber security effectiveness. Chapters in the book reflect a multilevel perspective (individuals, teams, multiteam systems) and describe cognitive, affective and behavioral inputs, processes and outcomes that operate at each level. The book chapters also include contributions from both research scientists and cyber security policy-makers/professionals to promote a strong scientist-practitioner dynamic. The intent of the book editors is to inform both theory and practice regarding the psychosocial dynamics of cyber security work.

West African Economic and Monetary Union (WAEMU) Selected Issues
International Monetary Fund

Building Information Modelling (BIM) is a global phenomenon which is gaining significant momentum across the world. Currently there is little information on how to realise and monitor benefits from implementing BIM across the life-cycle of a built environment asset. This book provides a practical and strategic framework to realise value from implementing BIM by adapting Benefit Realisation Management theory. It presents an approach for practitioners aiming to implement BIM across the life-cycle of built environment assets, including both buildings and infrastructure. Additionally, the book features: wide-ranging information about BIM, the challenges of monitoring progress towards benefit goals and the greater context of implementation; a set of dictionaries that illustrate: how benefits can be achieved, what the benefit flows are and the enabling tools and processes that contribute to achieving and maximising them; a suite of measures that can serve to monitor progress with examples of how they have been used to measure benefits from BIM; real-world examples from across the world and life-cycle phases that show how these benefits can be achieved; and information on international maturity and competency measures to complement the value realisation framework. Including a blend of academic and industry input, this book has been developed in close collaborative consultation with industry, government and international research organisations and could be used for industry courses on BIM benefits and implementation for asset management or by universities that teach BIM-related courses.

This text serves as a complete introduction to the subject of knowledge management, incorporating technical, and social aspects of knowledge management, as well as practical examples, traditional approaches, and emerging topics.

This theory-to-practice guide offers leading-edge ideas for wide-scale curriculum reform in sciences, technology, engineering, the arts, and mathematics--the STEAM subjects. Chapters emphasize the critical importance of current and emerging digital technologies in bringing STEM education up to speed and implementing changes to

curricula at the classroom level. Of particular interest are the diverse ways of integrating the liberal arts into STEM course content in mutually reshaping humanities education and scientific education. This framework and its many instructive examples are geared to ensure that both educators and students can become innovative thinkers and effective problem-solvers in a knowledge-based society. Included in the coverage: Reconceptualizing a college science learning experience in the new digital era. Using mobile devices to support formal, informal, and semi-formal learning. Change of attitudes, self-concept, and team dynamics in engineering education. The language arts as foundational for science, technology, engineering, art, and mathematics. Can K-12 math teachers train students to make valid logical reasoning? Moving forward with STEAM education research. Emerging Technologies for STEAM Education equips educators, education researchers, administrators, and education policymakers with curricular and pedagogical strategies for making STEAM education the bedrock of accessible, relevant learning in keeping with today's digital advances.

The Olympic Games is undoubtedly the greatest sporting event in the world, with over 200 countries competing for success. This important new study of the Olympics investigates why some countries are more successful than others. Which factors determine their failure or success? What is the relationship between these factors? And how can these factors be manipulated to influence a country's performance in sport? This book addresses these questions and discusses the theoretical concepts that explain why national sporting success has become a policy priority around the globe. Danyel Reiche reassesses our understanding of success in sport and challenges the conventional explanations that population size and economic strength are the main determinants for a country's Olympic achievements. He presents a theory of countries' success and failure, based on detailed investigations of the relationships between a wide variety of factors that influence a country's position in the Olympic medals table, including geography, ideology, policies such as focusing on medal promising sports, home advantage and the promotion of women. This book fills a long-standing gap in literature on the Olympics and will provide valuable insights for all students, scholars, policy makers and journalists interested in the Olympic Games and the wider relationship between sport, politics, and nationalism.

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