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Deliberation

Discipline-Based Education Research

This book can be used in the classroom or as an in-depth self-study guide. Its unique programmed approach patiently presents the mathematics in a step-by-step fashion together with a wealth of worked examples and exercises. It also contains quizzes, learning outcomes, and "Can You?" checklists that guide readers through each topic and reinforce learning and comprehension.

Engineering Society

Ensuring that their work has a positive influence on society is a responsibility and a privilege for engineers, but also a considerable challenge. This book addresses the ways in which engineers meet this challenge, working from the assumption that for a project to be truly ethical both the undertaking itself and its implementation must be ethically sound. The contributors discuss varied topics from an international and interdisciplinary perspective, including I robot ethics; I outer space; I international development; I internet privacy and security; I green branding; I arms conversion; I green employment; and I deliberate misinformation about climate change Important questions are answered, such as I what is meant

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by engineering ethics and its practical implications; I how decisions made by engineers in their working lives make an impact at the global as well as the local level; and I what ethics-related questions should be asked before making such decisions. Ethical Engineering for International Development and Environmental Sustainability will be a valuable resource for practising and student engineers as well as all who are interested in professional ethics, especially as it relates to engineering. Researchers and policy makers concerned with the effects of engineering decisions on environmental sustainability and international stability will find this book to be of special interest.

Living in a Low-Carbon Society in 2050

Covering all the fundamental topics in hydraulics and hydrology, this text is essential reading for undergraduate students and practising engineers around the world who want an accessible, thorough and trusted introduction to the subject. By encouraging readers to work through examples, try simple experiments and continually test their own understanding as the book progresses, the text quickly builds confidence. This hands-on approach aims to show students just how interesting hydraulics and hydrology are, as well as providing an invaluable reference resource for practising engineers. Key features: • an easy-to-read, engaging text • a wealth of worked examples to reinforce the theory • boxed highlights and Remember! features • Self Test and Revision Questions with

solutions • a wide range of figures and photographs This third edition includes: • Updates on climate change, flood risk management, flood alleviation, design considerations when developing greenfield sites, and the design of storm water sewers • A new chapter on sustainable storm water management

Info-Gap Economics

This book is a product of applying info-gap decision theory to policy formulation and evaluation in monetary economics and related domains. Info-gap theory has been applied to planning and decision problems in many areas, including engineering, biological conservation, project management, economics, medicine, homeland security, and more.

Advanced Engineering Mathematics

Having the right investment beliefs and putting them into practice is key to delivering the right results. Decision makers in the investment industry should worry less about the stocks and products they pick for their clients and more about getting the big picture right; developing investment beliefs are instrumental in making the right choices.

Decision Making in Systems Engineering and Management

Vector Analysis

The World Investment Report is widely regarded as the most authoritative source of data and analysis on the activities of transnational corporations, national and international regulatory regimes, and their implications for development. The 2011 edition focuses on the strategic use of non-equity modalities (e.g. contract manufacturing, service outsourcing, licensing, franchising, etc.) by transnational corporations in their management of global value chains and international operations. Additional highlights include a discussion of the interplay between foreign direct investment and industrial policy, as well as an assessment of the origin, rise and global map of state-owned transnational corporations. It also contains a statistical annex with data on flows and stocks of foreign direct investment for 196 economies.

Space Capitalism

The key aim of the volume of original papers on the theory and practice of ODE featured in Organization Design and Engineering is to contribute towards

overcoming the academic challenges stated above. A secondary aim is to launch the debate about ODE, including whether or not the debate itself is warranted.

Risk Assessment

This pioneering book examines how policies to raise efficiency and performance in Europe's universities have profoundly altered ties between government, society and higher education, outlining how Evaluation Agencies have urged Europe's universities to meet the challenge of modernization.

Organizing the 20th-Century World

In the middle of the twentieth century, a new class of marketing expert emerged beyond the familiar ad men of Madison Avenue. Working as commercial designers, consumer psychologists, sales managers, and market researchers, these professionals were self-defined “consumer engineers,” and their rise heralded a new era of marketing. To what extent did these efforts to engineer consumers shape consumption practices? And to what extent was the phenomenon itself a product of broader social and cultural forces? This collection considers consumer engineering in the context of the longer history of transatlantic marketing. Contributors offer case studies on the roles of individual consumer engineers on

both sides of the Atlantic, the impact of such marketing practices on European economies during World War II and after, and the conflicted relationship between consumer activists and the ideas of consumer engineering. By connecting consumer engineering to a web of social processes in the twentieth century, this volume contributes to a reassessment of consumer history more broadly.

Mapping Cultures

In this edited volume, academics and practitioners from various disciplines investigate the challenges, opportunities and frameworks in the implementation of Smart Cities in the Gulf. The volume presents insightful analyses and identifies key lessons learned through case studies covering four main themes including smart city frameworks and governance, resources and infrastructure, information and communication technologies, and the social perspective. In doing so, the book provides policy recommendations related to smart governance, as well as overall frameworks that cities can adopt in their process of transition, and knowledge that is integral to bridge the gap between various stakeholders in the Smart City milieu. This edited volume comprises extended versions of papers presented at a workshop held at the University of Cambridge, UK titled “Smart Cities in the GCC: Current State, Opportunities and Challenges.”

Ethical Engineering for International Development and Environmental Sustainability

This book compares and contrasts the motivations, morality, and effectiveness of space exploration when pursued by private entrepreneurs as opposed to government. The authors advocate market-driven, private initiatives take the lead through enhanced competition and significant resources that can be allocated to the exploration and exploitation of outer space. Space travel and colonisation is analysed through the prism of economic freedom and laissez faire capitalism, in a unique and accessible book.

When Business Meets Culture

There are currently 3.5 billion mobile phones in the world and mobile information technologies permeate all aspects of life. This book explores how mobile technologies and information work shape each other. Most writings do not consider how information work increasingly relies on mobile services; this book seeks to address this imbalance.

Financial Engineering with Copulas Explained

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In *That Used to Be Us*, the blockbuster Michael Mandelbaum wrote with Thomas L. Friedman, the authors analyzed the challenges America faces, including globalization, and described a path to recovering America's greatness. In his widely and well reviewed *The Road to Global Prosperity*, Mandelbaum, one of America's leading authorities on international affairs, looks at whether our optimism about the world's economic future is justified in view of the financial meltdown of 2008, still being felt; Europe's troubled currency; the slowing growth of China and other emerging nations. He concludes that while the global economy does face major challenges in the years ahead, there are compelling reasons to believe for optimism. Mandelbaum says that globalization is both irreversible and a positive force for the United States and the world. As technology and free markets expand and national leaders realize that their political power rests on delivering prosperity, countries will cooperate more. As more nations connect, their economies will grow. As immigration increases, as more money crosses borders, and as more countries emerge from poverty, individuals and societies around the world will benefit. *The Road to Global Prosperity* illuminates the crucial issues that will determine the economic future. Mandelbaum makes a persuasive case for optimism as well as offering a concrete, practical guide to the challenges and opportunities that lie ahead.

Human Resource Management in Project-Based Organizations

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In an increasingly technological world, the education of scientists and engineers has become an activity of growing importance. *Educating Scientists and Engineers for Academic and Non-Academic Career Success* focuses on the structure of the current educational system and describes the transformations needed to ensure the adequate education of future science and engineering students. The book describes how university faculty can make the necessary changes to teach a broader range of skills, technical proficiency, teamwork, adaptability, and versatility within the undergraduate and postgraduate curriculum. Also covered are approaches to provide a broader exposure to experiences desired by both academic and non-university employers to prepare students for an increasingly interdisciplinary, collaborative, and global job market.

Investment Beliefs

Designed in a structured, directed format to help develop understanding, rather than just providing a simple source of information, this text focuses on the environmental impact of refurbishment rather than new build. Key features:

- Student-centred learning style
- Illustrated case studies and review tasks
- Focus on the importance of sustainability in refurbishment and building use
- Updated to reflect current issues such as flood damage
- Covers refurbishment in both housing and large-span multi-storey commercial and industrial buildings
- Easy-to-follow page layout, with a wealth of figures and photos

A companion website

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featuring extra photographs and other additional material can be found at: www.palgrave.com/science/engineering/riley3 This volume builds on material introduced in Construction Technology 1: House Construction and Construction Technology 2: Industrial and Commercial Building, but is also valuable as a standalone text.

Soil Mechanics

The authors explore the complex dynamics of mining and Corporate Social Responsibility (CSR) in Latin America, including a reflection on the African continent, presenting arguments and case studies based on new research on a set of urgent and emerging questions surrounding mining, development and sustainability.

Engineering Mathematics

Combining theory, case studies and speculative fiction, a range of contributors, from leading UK academics to pioneering renewable activists, create a compelling picture of the potential perks and pitfalls of a low carbon future.

Nuclear Energy Development in Asia

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Key features * A unique technique-oriented approach takes the student through the mathematics in a highly accessible way * Comprehensive coverage of all topics required by undergraduates at advanced levels of mathematics in engineering and science * Hundreds of worked examples and progressively more challenging exercises * Ideal either as part of a course or for self-study

Understanding Hydraulics

An exploration of how and why Japan, South Korea, Taiwan, China and India have initiated and developed nuclear energy programs and what challenges they face today. Were the nuclear programmes driven by the low energy endowment, a desire to pursue international prestige, national security concerns, environmental pollution or economic development?

Enterprise Mobility

This ground breaking book provides empirical and theoretical insights into the interface between deliberative democracy and the rough and tumble of interest groups in advocacy politics. It examines how deliberative ideals work alongside the adversarial realities of interest-based politics.

Educating Scientists and Engineers for Academic and Non-Academic Career Success

An exploration of the ways that multiple inequalities are being addressed in Europe. Using country-based and region-specific case studies it provides an innovative comparative analysis of the multidimensional equality regimes that are emerging in Europe, and reveals the potential that these have for institutionalizing intersectionality.

Handbook of Research on Applied E-Learning in Engineering and Architecture Education

This book develops the major themes of time series analysis from its formal beginnings in the early part of the 20th century to the present day through the research of six distinguished British statisticians, all of whose work is characterised by the British traits of pragmatism and the desire to solve practical problems of importance.

Engineering Mathematics Through Applications

An interdisciplinary collection exploring the practices and cultures of mapping in

the arts, humanities and social sciences. It features contributions from scholars in critical cartography, social anthropology, film and cultural studies, literary studies, art and visual culture, marketing, museum studies, architecture, and popular music studies.

Fundamental Maths

The integration of technology in education has provided tremendous opportunity for learners of all ages. In today's technology-focused society, the traditional classroom setting is being transformed through online learning platforms, collaborative and experimental methods, and digital educational resources that go hand-in-hand with non-digital learning devices. The Handbook of Research on Applied E-Learning in Engineering and Architecture Education reviews the latest research available on the implementation of digital tools and platforms within the framework of technical education, specifically in the subjects of architecture and engineering. Taking a global approach to the topic of online learning environments for technical education at all grade levels, this comprehensive reference work is ideally designed for use by educators, instructional designers, and researchers from around the world. This handbook contains pertinent research on a variety of educational topics including online learning platforms, mobile and blended learning, collaborative learning environments, gaming in education, informal learning, and educational assessment.

Governance Ecosystems

A groundbreaking and comprehensive reference that's been a bestseller since 1970, this new edition provides a broad mathematical survey and covers a full range of topics from the very basic to the advanced. For the first time, a personal tutor CD-ROM is included.

Consumer Engineering, 1920s-1970s

Explaining crime by reference to abnormalities of the brain is just one example of how the human and social sciences have influenced the approach to social problems in Western societies since 1880. Focusing on applications such as penal policy, therapy, and marketing, this volume examines how these sciences have become embedded in society.

Starting Up in Business Networks

The cultural sector is gaining increasing importance in our economies, consistently registering growth rates above average GDP. This book presents insights on how cultural institutions can find new perspectives in their management and provides ideas to hasten culture's role as an economic developer.

Non-equity Modes of International Production and Development

Do you need to improve your confidence in maths? Does your maths need to be refreshed and refocused for engineering or science? Are there some elements of school maths you have forgotten or never quite mastered? With clear explanations, lots of examples and a friendly, encouraging style, Fundamental Maths is a short, easy-to-follow textbook that makes maths accessible and manageable for all. Written for students entering HE or FE courses in engineering or science, the author covers all the core topics and breaks them down into easily digestible chunks, keeping explanations clear and concise throughout. Put past anxieties about maths or gaps in your knowledge behind you!

Third-Wave Feminism and the Politics of Gender in Late Modernity

All the tools needed to perform a thorough riskassessment—whether you're working in insurance, forensics,engineering, or public safety Risk analysis is the method of analyzing the dangers toindividuals, businesses, and government agencies posed by potentialnatural and man-made hazards. The central task of the risk assessoris predicting the success of a project. This includes isolating theentire

spectrum of adverse events that can derail a project or threaten the health and safety of individuals, organizations, and the environment. Designed as a practical, in-the-field toolkit, Risk Assessment details every aspect of how a risk assessment is performed, showing the proper tool to be used at various steps in the process, as well as locating the tool that best fits the risk assessment task at hand. Examining not only the very nature of risks and consequences, with fascinating historical examples, the book progresses from simple to more complex risk assessment techniques used by the authors in their daily work, all presented in a form that can be readily adapted to any number of real-life situations: Ecological Risk Assessment Task Analysis Techniques Preliminary Hazards Analysis Failure Mode and Effects Analysis Human Reliability Analysis Critical Incident Technique With numerous industry-specific case studies, as well as additional case studies for risk assessments for a restaurant and a process plant, the book provides readers with complete examples of how each of the techniques can be used in a variety of real-world situations. Including downloadable worksheets and other useful assessment materials, as well as guidance on using PRA software, this unparalleled reference offers all the tools and techniques needed to conduct a thorough and accurate assessment of risk.

Construction Technology 3

This is a succinct guide to the application and modelling of dependence models or

copulas in the financial markets. First applied to credit risk modelling, copulas are now widely used across a range of derivatives transactions, asset pricing techniques and risk models and are a core part of the financial engineer's toolkit.

Manufacturing Engineering Handbook, Second Edition

Decision Making in Systems Engineering and Management is a comprehensive textbook that provides a logical process and analytical techniques for fact-based decision making for the most challenging systems problems. Grounded in systems thinking and based on sound systems engineering principles, the systems decisions process (SDP) leverages multiple objective decision analysis, multiple attribute value theory, and value-focused thinking to define the problem, measure stakeholder value, design creative solutions, explore the decision trade off space in the presence of uncertainty, and structure successful solution implementation. In addition to classical systems engineering problems, this approach has been successfully applied to a wide range of challenges including personnel recruiting, retention, and management; strategic policy analysis; facilities design and management; resource allocation; information assurance; security systems design; and other settings whose structure can be conceptualized as a system.

The Road to Global Prosperity

This book critically assesses third-wave feminist strategies for advancing a feminist 'politics of the self' within the late modern, postfeminist gender order – a context where gender equality has been mainstreamed, feminism has been dismissed, and a neoliberal culture of self-management has become firmly entrenched.

Organization Design and Engineering

Presenting findings from research into Sweden's leading multinationals this book focuses on engineering companies operating in global industries such as pharmaceutical, aerospace, packing systems and automotive. It explores research and practice within the area of HRM focusing on project-based organizations.

GIEE 2011: Gender and Interdisciplinary Education for Engineers

The new edition of this professional resource reveals how to optimize all aspects of the global manufacturing process to build the highest quality goods at the lowest price in the shortest possible time. How can one apply technical and business knowledge to develop a strategic plan that delivers increased productivity, quality, sustainability, reliability, agility, resilience, and best practices with rapid time to production and value? The answers are found in the fully updated new edition of

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Manufacturing Engineering Handbook. The goal of this second edition is to provide the essential knowledge needed to build products with the highest quality at the lowest cost in the least amount of time by optimizing all aspects of the manufacturing process—design, development, tools, processes, quality, speed, output, safety, and sustainability. You will gain access to information on conventional and modern technologies, manufacturing processes, and operations management that will assist you in achieving these goals. The book is written by a team of more than 100 internationally renowned manufacturing engineering experts, and pared down from its original 1200 pages. The new and vastly improved second edition is specifically designed to concisely and succinctly cover traditional manufacturing processes and advanced technologies as well as newer manufacturing software and systems to integrate them into the modern, global manufacturing world. Brand-new chapters on: eco-design and sustainability; nano materials and nano manufacturing; facilities planning; operations research New sections on plastics, composites, and moldmaking; global manufacturing and supply chain management Increased coverage of Design for Six Sigma and adaptive manufacturing Affiliated web site with color illustrations, graphs, charts, discussions on future trends, additional technical papers, and suggestions for further reading

Smart Cities in the Gulf

This book offers a novel perspective on starting-up new business ventures through examining the process by which they become part of the existing business environment. The book highlights the importance of inter-organizational business relationships. Asserting that new ventures need to interact and connect with customers and suppliers, alongside policy actors and universities, Starting up in Business Networks demonstrates how beginning a new venture demands initiating and developing business relationships. Noting a lack of prior research into the process by which start-ups embed into an existing business network, this book presents examples from countries such as Sweden, Italy, the Netherlands and China to analyse the emergence and evolution of start-up business networks.

Institutionalizing Intersectionality

International Organizations play a pivotal role on the modern global stage and have done, this book argues, since the beginning of the 20th century. This volume offers the first historical exploration into the formative years of international public administrations, covering the birth of the League of Nations and the emergence of the second generation that still shape international politics today such as the UN, NATO and OECD. Centring on Europe, where the multilateralization of international relations played out more intensely in the mid-20th century than in other parts of the world, it demonstrates a broad range of historiographical and methodological approaches to institutions in international history. The book argues that after

several 'turns' (cultural, linguistic, material, transnational), international history is now better equipped to restate its core questions of policy and power with a view to their institutional dimensions. Making use of new approaches in the field, this book develops an understanding of the specific powers and roles of IO-administrations by delving into their institutional make-up.

The Evaluative State, Institutional Autonomy and Re-engineering Higher Education in Western Europe

This text teaches maths in a step-by-step fashion - ideal for students on first-year engineering and pre-degree courses. - Hundreds of examples and exercises, the majority set in an applied engineering context so that you immediately see the purpose of what you are learning - Introductory chapter revises indices, fractions, decimals, percentages and ratios - Fully worked solutions to every problem on the companion website at www.palgrave.com/engineering/singh plus searchable glossary, e-index, extra exercises, extra content and more!

A Very British Affair

Attracting more young people, particularly women, in Engineering and Technology (ET) is a major concern in Europe today. Their participation in engineering

occupations appears to be a key-issue for European economic and technical development, as well as a central achievement towards gender equality and social justice. Increasing young people's interest in the sciences and mathematics and underlining the importance of Engineering and Technology developments in shaping our collective future is an ongoing project in the education sector. This book presents various analyses and ideas for possible solutions. Aujourd'hui, attirer plus de jeunes et en particulier des jeunes femmes dans les formations d'ingénieurs est un souci majeur en Europe. C'est une clé pour aller vers l'égalité des sexes et favoriser le développement économique, scientifique et technologique de l'Europe. Accroître l'intérêt des jeunes pour les sciences et la technologie est essentiel pour notre futur collectif et constitue un défi majeur pour l'éducation. Ce livre présente des analyses et des idées pour de possibles solutions.

The Politics of Public Deliberation

The National Science Foundation funded a synthesis study on the status, contributions, and future direction of discipline-based education research (DBER) in physics, biological sciences, geosciences, and chemistry. DBER combines knowledge of teaching and learning with deep knowledge of discipline-specific science content. It describes the discipline-specific difficulties learners face and the specialized intellectual and instructional resources that can facilitate student

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understanding. Discipline-Based Education Research is based on a 30-month study built on two workshops held in 2008 to explore evidence on promising practices in undergraduate science, technology, engineering, and mathematics (STEM) education. This book asks questions that are essential to advancing DBER and broadening its impact on undergraduate science teaching and learning. The book provides empirical research on undergraduate teaching and learning in the sciences, explores the extent to which this research currently influences undergraduate instruction, and identifies the intellectual and material resources required to further develop DBER. Discipline-Based Education Research provides guidance for future DBER research. In addition, the findings and recommendations of this report may invite, if not assist, post-secondary institutions to increase interest and research activity in DBER and improve its quality and usefulness across all natural science disciplines, as well as guide instruction and assessment across natural science courses to improve student learning. The book brings greater focus to issues of student attrition in the natural sciences that are related to the quality of instruction. Discipline-Based Education Research will be of interest to educators, policy makers, researchers, scholars, decision makers in universities, government agencies, curriculum developers, research sponsors, and education advocacy groups.

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