Making Hard Decisions Clemen Solution

Expert judgment is a major source of information that can provide vital input to project managers, who must ensure that projects are completed successfully, on time, and on budget. Too often, however, companies lack detailed processes for finding and consulting with experts—making it hard to match the required know-how with the project at hand. In Expert Judgment in Project Management: Narrowing the Theory-Practice Gap, Paul S. Szwed provides research that will help project managers become more adept at using expert judgment effectively.

"This book is about the creative and messy process of making environmental management decisions. The approach we describe is called Structured Decision Making, a distinctly pragmatic label given to ways for helping individuals and groups think through tough multidimensional choices characterized by uncertain science, diverse stakeholders, and difficult tradeoffs. This is the everyday reality of environmental management, yet many important decisions currently are made on an ad hoc basis that lacks a solid value-based foundation, ignores key information, and results in selection of an inferior alternative. Making progress--in a way that is rigorous, inclusive, defensible, and transparent--requires combining analytical methods drawn from the decision sciences and applied ecology with deliberative insights from cognitive psychology, facilitation, and negotiation. We review key methods and discuss case-study examples based in our experiences in communities, boardrooms, and stakeholder meetings. Our goal is to lay out a compelling guide that will change how you think about making environmental decisions"--

The best thinking and actions in the fast-moving arena of collaboration and knowledge management The New Edge in Knowledge captures the most practical and innovative practices to ensure organizations have the knowledge they need in the future and, more importantly, the ability to connect the dots and use knowledge to succeed today. Build or retrofit your organization for new ways of working and collaboration by using knowledge management Adapt to today's most popular ways to collaborate such as social networking Overcome organization silos, knowledge hoarding and "not invented here" resistance Take advantage of emerging technologies and mobile devices to build networks and share knowledge Identify what can be learned from Facebook, Twitter, Google and Amazon to make firms and people smarter, stronger and faster Straightforward and easy-to-follow, this is the resource you'll turn to again and again to get-and stay-in the know. Plus, the book is filled with real-world examples – the case studies and snapshots of how best practice companies are achieving success with knowledge management. Praise for The New Edge in Knowledge: How Knowledge Management is Changing the Way We Do Business "You may think you know knowledge management, but this is new—how knowledge initiatives can incorporate social media, mobile technologies, and learning, for example. This book integrates the new knowledge management with the best of the old, such as communities of practice and measurement. KM still matters, and this book tells you why." —Thomas H. Davenport, President's Distinguished Professor of IT and Management, Babson College "Over the last decade, knowledge management has emerged as a key success factor for the modern corporation, driven by tremendous advances in business analytics. This book studies the best practices in knowledge management and how leadership companies are applying them today." —Virginia M. Rometty, Senior Vice President and Group Executive Sales, Marketing and Strategy, IBM "APQC has been on the leading edge of knowledge management for almost two decades. O'Dell and Hubert have captured those best practices and created a road map to transform the way people work. Reap the benefits of their experience." —C. Jackson Grayson, Chairman and Founder, APQC and co-author of If Only We Knew What We Know "The New Edge in Knowledge is a useful how-to manual that takes best practice sharing and organizational capability building to the next level: Web 2.0, social networking, mobility, and communities of practice. National and international examples show how companies can create strategic alignment and systematic management to transfer knowledge rapidly and effectively." —Rosabeth Moss Kanter, Harvard Business School professor and author of SuperCorp: How Vanguard Companies Create Innovation, Profits, Growth, and Social Good "What has made our KM program strong is sticking to the fundamentals-- that's exactly what this book outlines. It provides trusted advisor guidance on how any company or organization can take the concrete steps to create and implement a world class KM strategy." —Dan Ranta, Director of Knowledge Sharing, ConocoPhillips "Carla O'Dell and Cindy Hubert have written an amazingly down to earth, useful and practical book on knowledge management and its importance to modern business. Starting with the distinction between information and knowledge, they provide a viewpoint that leaves IT in the dust. Read it to prepare for tomorrow's world!" —A. Gary Shilling, President, A. Gary Shilling & Co., Inc. "A practical business approach to knowledge management, this book covers KM's value proposition for any organization, provides proven strategies and approaches to make it work, shares how to measure KM's impact, and illustrates high level knowledge sharing with wonderful case studies. Well done!" —Jane Dysart, Conference Chair, KMWorld & Partner, Dysart & Jones Associates "This book is a tour de force in the field of knowledge management. Read every single page and learn about best practices from the leading firms around the world. All of this and more from the company that leads the way in the field: APQC. I highly recommend it for your bookshelf." —Dr. Nick Bontis, Director, Institute for Intellectual Capital Research "Food for thought from two of the pioneers. Carla O'Dell and Cindy Hubert have been in the trenches with many of the organizations that have succeeded in leveraging KM for business benefit. They recognized early the symbiotic relationship between knowledge flow and work flow and have guided practitioners in the quest to optimize and streamline both." — Reid Smith, Enterprise Content Management Director, Marathon Oil Company "Carla O'Dell and Cindy Hubert take knowledge management from vague idea to strategic enabler. In so doing, they clear up the not only the whats, but the whys and the hows. This book establishes knowledge management as an organizational discipline. The authors offer a straightforward set of execution steps, coaching readers on how to launch their own knowledge management programs in a deliberate and rigorous way." —Jill Dyché, Partner and Co-Founder, Baseline Consulting; Author of Customer Data Integration: Reaching a Single Version of the Truth "The authors and APQC have put together an excellent 'how to' manual for Knowledge Management (KM) that can benefit any organization, from those experienced in KM to those just starting. The authors have taken their years of experience and excellence in this field and written a masterful introduction and design manual that incorporates industry best-practices and alerts readers to the pitfalls they are likely to encounter. This book needs to be in the hands of every KM professional and corporate senior leader." —Ralph Soule, a member of the US Navy

HIGHLIGHTS THE USE OF BAYESIAN STATISTICS TO GAIN INSIGHTS FROM EMPIRICAL DATA Featuring an accessible approach, Bayesian Methods for Management and Business: Pragmatic Solutions for Real Problems demonstrates how Bayesian statistics can help to provide insights into important issues facing business and management. The book draws on multidisciplinary applications and examples and utilizes the freely available software WinBUGS and R to illustrate the integration of Bayesian statistics within data-rich environments. Computational issues are discussed and integrated with coverage of linear models, sensitivity analysis, Markov Chain Monte Carlo (MCMC), and model comparison. In addition, more advanced models including hierarchal models, generalized linear models, and latent variable models are presented to further bridge the theory and application in real-world usage. Bayesian Methods for Management and Business: Pragmatic Solutions for Real Problems also features: Numerous real-world examples drawn from multiple management disciplines such as strategy, international business, accounting, and information systems An incremental skill-building presentation based on analyzing data sets with widely applicable models of increasing complexity An accessible treatment of Bayesian statistics that is integrated with a broad range of business and management issues and problems A practical problem-solving approach to illustrate how Bayesian statistics can help to provide insight into important issues facing business and management Bayesian Methods for Management and Business: Pragmatic Solutions for Real Problems is an important textbook for Bayesian statistics courses at the advanced MBA-level and also for business and

management PhD candidates as a first course in methodology. In addition, the book is a useful resource for management scholars and practitioners as well as business academics and practitioners who seek to broaden their methodological skill sets.

MAKING HARD DECISIONS WITH DECISIONTOOLS® is a special version of Bob Clemen's best-selling text, MAKING HARD DECISIONS. This straight-forward book teaches the fundamental ideas of decision analysis, without an overly technical explanation of the mathematics used in management science. This new version incorporates and implements the powerful DecisionTools® by Palisade Corporation, the world's leading toolkit for risk and decision analysis. At the end of each chapter, topics are illustrated with step-by-step instructions for DecisionTools®. This new version makes the text more useful and relevant to students to business and engineering.

Gathering the right kind and the right amount of information is crucial for any decision-making process. This book presents a unified framework for assessing the value of potential data gathering schemes by integrating spatial modelling and decision analysis, with a focus on the Earth sciences. The authors discuss the value of imperfect versus perfect information, and the value of total versus partial information, where only subsets of the data are acquired. Concepts are illustrated using a suite of quantitative tools from decision analysis, such as decision trees and influence diagrams, as well as models for continuous and discrete dependent spatial variables, including Bayesian networks, Markov random fields, Gaussian processes, and multiple-point geostatistics. Unique in scope, this book is of interest to students, researchers and industry professionals in the Earth and environmental sciences, who use applied statistics and decision analysis techniques, and particularly to those working in petroleum, mining, and environmental geoscience.

This introduction to software systems engineering shows how to integrate efficient tools for software engineering into a complete systems-design methodology. The theme is improvement of software productivity via the methods, design methodologies, and management approaches of systems engineering. Covered are rapid prototyping, reusability constructs, knowledge-based systems for software development, interactive support-system environments, and systems management.

Bayesian decision analysis supports principled decision making in complex domains. This textbook takes the reader from a formal analysis of simple decision problems to a careful analysis of the sometimes very complex and data rich structures confronted by practitioners. The book contains basic material on subjective probability theory and multi-attribute utility theory, event and decision trees, Bayesian networks, influence diagrams and causal Bayesian networks. The author demonstrates when and how the theory can be successfully applied to a given decision problem, how data can be sampled and expert judgements elicited to support this analysis, and when and how an effective Bayesian decision analysis can be implemented. Evolving from a third-year undergraduate course taught by the author over many years, all of the material in this book will be accessible to a student who has completed introductory courses in probability and mathematical statistics.

Many books instruct readers on how to use the tools of policy analysis. This book is different. Its primary focus is on helping readers to look critically at the strengths, limitations, and the underlying assumptions analysts make when they use standard tools or problem framings. Using examples, many of which involve issues in science and technology, the book exposes readers to some of the critical issues of taste, professional responsibility, ethics, and values that are associated with policy analysis and research. Topics covered include policy problems formulated in terms of utility maximization such as benefit-cost, decision, and multi-attribute analysis, issues in the valuation of intangibles, uncertainty in policy analysis, selected topics in risk analysis and communication, limitations and alternatives to the paradigm of utility maximization, issues in behavioral decision theory, issues related to organizations and multiple agents, and selected topics in policy advice and policy analysis for government.

Risk management is dynamic, with new risks continually being identified and risk management techniques adapting to new challenges. The Risk Management Handbook gives a clear snapshot of the current state of play in the risk management landscape, and a look ahead to the key emerging issues in the field. Drawing together leading voices from the major risk management application areas - from GRC to supply chain risk, operational risk to cyber risk - this edited collection showcases best practice in each discipline and provides a succinct and coherent picture of the field as a whole. Part One surveys these crucial application areas and provides a broad integrative framework for the differing contexts within which risk management is undertaken. Part Two explores emerging issues and techniques, from risk-based thinking to communicating uncertainty. The Risk Management Handbook offers readers knowledge of current best practice and a cutting-edge insight into new developments within risk management. Whether you are a risk professional wanting to stay abreast of your field, a student seeking a broad and up-to-date introduction to risk, or a business leader wanting to get to grips with the risks that face your business, this book will provide expert guidance.

This work on strategic decision making focuses on multi-objective decision analysis with spreadsheets

The U.S. intelligence community (IC) is a complex human enterprise whose success depends on how well the people in it perform their work. Although often aided by sophisticated technologies, these people ultimately rely on their own intellect to identify, synthesize, and communicate the information on which the nation's security depends. The IC's success depends on having trained, motivated, and thoughtful people working within organizations able to understand, value, and coordinate their capabilities. Intelligence Analysis provides up-to-date scientific guidance for the intelligence community (IC) so that it might improve individual and group judgments, communication between analysts, and analytic processes. The papers in this volume provide the detailed evidentiary base for the National Research Council's report, Intelligence Analysis for Tomorrow: Advances from the Behavioral and Social Sciences. The opening chapter focuses on the structure, missions, operations, and characteristics of the IC while the following 12 papers provide in-depth reviews of key topics in three areas: analytic methods, analysts, and organizations. Informed by the IC's unique missions and constraints, each paper documents the latest advancements of the relevant science and is a stand-alone resource for the IC's leadership and workforce. The collection allows readers to focus on one area of interest (analytic methods, analysts, or organizations) or even one particular aspect of a category. As a collection, the volume provides a broad perspective of the issues involved in making difficult decisions, which is at the heart of intelligence analysis.

Contains teaching notes and complete solutions to all the problems in the text.

The 1980 eruption of Mount St. Helens in southwest Washington State radically changed the physical and socio-economic landscapes of the region. The eruption destroyed the summit of the volcano, sending large amounts of debris into the North Fork Toutle River, and blocking the sole means of drainage from Spirit Lake 4 miles north of Mount St. Helens. As a result of the blockage, rising lake levels could cause failure of the debris blockage, putting the downstream population of approximately 50,000 at risk of catastrophic flooding and mud flows. Further, continued transport of sediment to the river from volcanic debris deposits surrounding the mountain reduces the flood carrying capacity of downstream river channels and leaves the population vulnerable to chronic flooding. The legacy of the 1980 eruption and the prospect of future volcanic, seismic, and flood events mean that risk management in the Spirit Lake Toutle River system will be challenging for decades to come. This report offers a decision framework to support the long-term management of risks related to the Spirit Lake and Toutle River system in light of the different regional economic, cultural, and social priorities, and the respective roles of federal, tribal, state, and local authorities, as well as

other entities and groups in the region. It also considers the history and adequacy of characterization, monitoring, and management associated with the Spirit Lake debris blockage and outflow tunnel, other efforts to control transport of water and sediment from the 1980 and later eruptions, and suggests additional information needed to support implementation of the recommended decision framework.

Since Operation Desert Shield/Desert Storm, Gulf War veterans have expressed concerns about health effects that could be associated with their deployment and service during the war. Although similar concerns were raised after other military operations, the Gulf War deployment focused national attention on the potential, but uncertain, relationship between the presence of chemical and biological (CB) agents and other harmful agents in theater and health symptoms reported by military personnel. Strategies to Protect the Health of Deployed U.S. Forces which is one of the four two-year studies, examines the detection and tracking of exposures of deployed personnel to multiple harmful agents.

One of the goals of artificial intelligence (AI) is creating autonomous agents that must make decisions based on uncertain and incomplete information. The goal is to design rational agents that must take the best action given the information available and their goals. Decision Theory Models for Applications in Artificial Intelligence: Concepts and Solutions provides an introduction to different types of decision theory techniques, including MDPs, POMDPs, Influence Diagrams, and Reinforcement Learning, and illustrates their application in artificial intelligence. This book provides insights into the advantages and challenges of using decision theory models for developing intelligent systems.

The Blackwell Handbook of Judgment and Decision Making is a state-of-the art overview of current topics and research in the study of how people make evaluations, draw inferences, and make decisions under conditions of uncertainty and conflict. Contains contributions by experts from various disciplines that reflect current trends and controversies on judgment and decision making. Provides a glimpse at the many approaches that have been taken in the study of judgment and decision making and portrays the major findings in the field. Presents examinations of the broader roles of social, emotional, and cultural influences on decision making. Explores applications of judgment and decision making research to important problems in a variety of professional contexts, including finance, accounting, medicine, public policy, and the law.

Effective risk communication is essential to the well-being of any organization and those people who depend on it. Ineffective communication can cost lives, money and reputations. Communicating Risks and Benefits: An Evidence-Based User's Guide provides the scientific foundations for effective communications. The book authoritatively summarizes the relevant research, draws out its implications for communication design, and provides practical ways to evaluate and improve communications for any decision involving risks and benefits. Topics include the communication of quantitative information and warnings, the roles of emotion and the news media, the effects of age and literacy, and tests of how well communications meet the organization's goals. The guide will help users in any organization, with any budget, to make the science of their communications as sound as the science that they are communicating.

As advancements in technology continue to influence all facets of society, its aspects have been utilized in order to find solutions to emerging ecological issues. Creating a Sustainable Ecology Using Technology-Driven Solutions highlights matters that relate to technology driven solutions towards the combination of social ecology and sustainable development. This publication addresses the issues of development in advancing and transitioning economies through creating new ideas and solutions; making it useful for researchers, practitioners, and policy makers in the socioeconomic sectors.

Emphasizing leadership principles and practices, Antipatterns: Managing Software Organizations and People, Second Edition catalogs 49 business practices that are often precursors to failure. This updated edition of a bestseller not only illustrates bad management approaches, but also covers the bad work environments and cultural traits commonly fou

Table of contents

This best-selling and up-to-date survey of decision analysis concepts and techniques is accessible to students with limited mathematical backgrounds. It is designed for advanced undergraduate and MBA-level courses in decision analysis and also for business courses in introductory quantitative methods. (Prerequisites: college algebra; introductory statistics.)

With the growing number, complexity, and importance of environmental problems come demands to include a full range of intellectual disciplines and scholarly traditions to help define and eventually manage such problems more effectively. Decision Making for the Environment: Social and Behavioral Science Research Priorities is the result of a 2-year effort by 12 social and behavioral scientists, scholars, and practitioners. The report sets research priorities for the social and behavioral sciences as they relate to several different kinds of environmental problems.

Emphasizing concepts rather than recipes, An Introduction to Statistical Inference and Its Applications with R provides a clear exposition of the methods of statistical inference for students who are comfortable with mathematical notation. Numerous examples, case studies, and exercises are included. R is used to simplify computation, create figures

Portfolio Decision Analysis: Improved Methods for Resource Allocation provides an extensive, up-to-date coverage of decision analytic methods which help firms and public organizations allocate resources to 'lumpy' investment opportunities while explicitly recognizing relevant financial and non-financial evaluation criteria and the presence of alternative investment opportunities. In particular, it discusses the evolution of these methods, presents new methodological advances and illustrates their use across several application domains. The book offers a many-faceted treatment of portfolio decision analysis (PDA). Among other things, it (i) synthesizes the state-of-play in PDA, (ii) describes novel methodologies, (iii) fosters the deployment of these methodologies, and (iv) contributes to the strengthening of research on PDA. Portfolio problems are widely regarded as the single most important application context of decision analysis, and, with its extensive and unique coverage of these problems, this book is a much-needed addition to the literature. The book also presents innovative treatments of new methodological approaches and their uses in applications. The intended audience consists of practitioners and researchers who wish to gain a good understanding of portfolio decision analysis and insights into how PDA methods can be leveraged in different application contexts. The book can also be employed in courses at the post-graduate level.

Modeling, simulation, and analysis (MS&A) is a crucial tool for military affairs. MS&A is one of the announced pillars of a strategy for transforming the U.S. military. Yet changes in the enterprise of MS&A have not kept pace with the new demands arising from rapid changes in DOD processes and missions or with the rapid changes in the technology available to meet those demands. To help address those concerns, DOD asked the NRC to identify shortcomings in current practice of MS&A and suggest where and how they should be resolved. This report provides an assessment of the changing mission of DOD and environment in which it must operate, an identification of high-level opportunities for

MS&A research to address the expanded mission, approaches for improving the interface between MS&A practitioners and decision makers, a discussion of training and continuing education of MS&A practitioners, and an examination of the need for coordinated military science research to support MS&A.

Drive maximum business value from digital analytics, web analytics, site analytics, and business intelligence! In Building a Digital Analytics Organization, pioneering expert Judah Phillips thoroughly explains digital analytics to business practitioners, and presents best practices for using it to reduce costs and increase profitable revenue throughout the business. Phillips covers everything from making the business case through defining and executing strategy, and shows how to successfully integrate analytical processes, technology, and people in all aspects of operations. This unbiased and product-independent guide is replete with examples, many based on the author's own extensive experience. Coverage includes: key concepts; focusing initiatives and strategy on business value, not technology; building an effective analytics organization; choosing the right tools (and understanding their limitations); creating processes and managing data; analyzing paid, owned, and earned digital media; performing competitive and qualitative analyses; optimizing and testing sites; implementing integrated multichannel digital analytics; targeting consumers; automating marketing processes; and preparing for the revolutionary "analytical economy." For all business practitioners interested in analytics and business intelligence in all areas of the organization.

The new edition of Essentials of Business Statisticsdelivers clear and understandable explanations of core business statistics concepts, making it ideal for a one-term course in business statistics. Containing continuing case studies that emphasize the theme of business improvement, the text offers real applications of statistics that are relevant to today's business students. The authors motivate students by showing persuasively how the use of statistical techniques in support of business decision-making helps to improve business processes. A variety of examples and exercises, and a robust, technology-based ancillary package are designed to help students master this subject. In addition, the authors have rewritten many of the discussions in this edition and have explained concepts more simply from first principles. The only prerequisite for this text is high school algebra.

The use of hazardous chemicals such as methyl isocyanate can be a significant concern to the residents of communities adjacent to chemical facilities, but is often an integral part of the chemical manufacturing process. In order to ensure that chemical manufacturing takes place in a manner that is safe for workers, members of the local community, and the environment, the philosophy of inherently safer processing can be used to identify opportunities to eliminate or reduce the hazards associated with chemical processing. However, the concepts of inherently safer process analysis have not yet been adopted in all chemical manufacturing plants. The Use and Storage of Methyl Isocyanate (MIC) at Bayer CropScience presents a possible framework to help plant managers choose between alternative processing options- considering factors such as environmental impact and product yield as well as safety- to develop a chemical manufacturing system. In 2008, an explosion at the Bayer CropScience chemical production plant in Institute, West Virginia, resulted in the deaths of two employees, a fire within the production unit, and extensive damage to nearby structures. The accident drew renewed attention to the fact that the Bayer facility manufactured and stores methyl isocyanate, or MIC - a volatile, highly toxic chemical used in the production of carbamate pesticides and the agent responsible for thousands of death in Bhopal, India, in 1984. In the Institute accident, debris from the blast hit the shield surrounding a MIC storage tank, and although the container was not damaged, an investigation by the U.S. Chemical Safety and Hazard Investigation Board found that the debris could have struck a relief valve vent pipe and cause the release of MIC to the atmosphere. The Board's investigation also highlighted a number of weaknesses in the Bayer facility's emergency response systems. In light of these concerns, the Board requested the National Research Council convene a committee of independent experts to write a report that examines the use and storage of MIC at the Bayer facility. The Use and Storage of Methyl Isocyanate (MIC) at Bayer CropScience also evaluates the analyses on alternative production methods for MIC and carbamate pesticides preformed by Bayer and the previous owners of the facility.

Linear Programming is a well-written introduction to the techniques and applications of linear programming. It clearly shows readers how to model, solve, and interpret appropriate linear programming problems. Feiring has presented several carefully-chosen examples which provide a foundation for mathematical modelling and demonstrate the wide scope of the techniques. He subsequently develops an understanding of the Simplex Method and Sensitivity Analysis and includes a discussion of computer codes for linear programming. This book should encourage the spread of linear programming techniques throughout the social sciences and, since it has been developed from Feiring's own class notes, it is ideal for students, particularly those with a limited background in quantitative methods.

MAKING HARD DECISIONS WITH DECISIONTOOLS is a new edition of Bob Clemen's best-selling title, MAKING HARD DECISIONS. This straightforward book teaches the fundamental ideas of decision analysis, without an overly technical explanation of the mathematics used in decision analysis. This new version incorporates and implements the powerful DecisionTools software by Palisade Corporation, the world's leading toolkit for risk and decision analysis. At the end of each chapter, topics are illustrated with step-by-step instructions for DecisionTools. This new version makes the text more useful and relevant to students in business and engineering. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Provides students with an understanding of the modeling and practice in power system stability analysis and control design, as well as the computational tools used by commercial vendors Bringing together wind, FACTS, HVDC, and several other modern elements, this book gives readers everything they need to know about power systems. It makes learning complex power system concepts, models, and dynamics simpler and more efficient while providing modern viewpoints of power system analysis. Power System Modeling, Computation, and Control provides students with a new

and detailed analysis of voltage stability; a simple example illustrating the BCU method of transient stability analysis; and one of only a few derivations of the transient synchronous machine model. It offers a discussion on reactive power consumption of induction motors during start-up to illustrate the low-voltage phenomenon observed in urban load centers. Damping controller designs using power system stabilizer, HVDC systems, static var compensator, and thyristor-controlled series compensation are also examined. In addition, there are chapters covering flexible AC transmission Systems (FACTS)—including both thyristor and voltage-sourced converter technology—and wind turbine generation and modeling. Simplifies the learning of complex power system concepts, models, and dynamics Provides chapters on power flow solution, voltage stability, simulation methods, transient stability, small signal stability, synchronous machine models (steady-state and dynamic models), excitation systems, and power system stabilizer design Includes advanced analysis of voltage stability, voltage recovery during motor starts, FACTS and their operation, damping control design using various control equipment, wind turbine models, and control Contains numerous examples, tables, figures of block diagrams, MATLAB plots, and problems involving real systems Written by experienced educators whose previous books and papers are used extensively by the international scientific community Power System Modeling, Computation, and Control is an ideal textbook for graduate students of the subject, as well as for power system engineers and control design professionals.

Behavioural studies have shown that while humans may be the best decision makers on the planet, we are not quite as good as we think we are. We are regularly subject to biases, inconsistencies and irrationalities in our decision making. Decision Behaviour, Analysis and Support explores perspectives from many different disciplines to show how we can help decision makers to deliberate and make better decisions. It considers both the use of computers and databases to support decisions as well as human aids to building analyses and some fast and frugal tricks to aid more consistent decision making. In its exploration of decision support it draws together results and observations from decision theory, behavioural and psychological studies, artificial intelligence and information systems, philosophy, operational research and organisational studies. This provides a valuable resource for managers with decision-making responsibilities and students from a range of disciplines, including management, engineering and information systems.

This is a brand new edition of an essential work on Bayesian networks and decision graphs. It is an introduction to probabilistic graphical models including Bayesian networks and influence diagrams. The reader is guided through the two types of frameworks with examples and exercises, which also give instruction on how to build these models. Structured in two parts, the first section focuses on probabilistic graphical models, while the second part deals with decision graphs, and in addition to the frameworks described in the previous edition, it also introduces Markov decision process and partially ordered decision problems.

For courses in Decision Making and Engineering. The Fundamentals of Analyzing and Making Decisions Foundations of Decision Analysis is a groundbreaking text that explores the art of decision making, both in life and in professional settings. By exploring themes such as dealing with uncertainty and understanding the distinction between a decision and its outcome, the First Edition teaches readers to achieve clarity of action in any situation. The book treats decision making as an evolutionary process from a scientific standpoint. Strategic decision-making analysis is presented as a tool to help students understand, discuss, and settle on important life choices. Through this text, readers will understand the specific thought process that occurs behind approaching any decision to make easier and better life choices for themselves.

CD-ROM contains: Beta Distribution Generator (Excel file) ; Binomial Distribution Generator (Excel file) ; book exercises (MS Word files) ; book figures (Powerpoint files) ; TreeAge Data decision trees for some of the examples in the book ; Demonstration versions of TreeAge Data and Lumina Analytica.

This is the Eleventh Edition of the student workbook that accompanies the best selling "bible" of project management. The workbook contains additional problems and exercises to reinforce the concepts presented in the main text. It also serves as a self-study guide for the Project Management Professional (PMP®) certification exam to be based on PMI®'s PMBOK® Guide, 5E. Both as accompanying supplement to Kerzner's text and as standalone self-study guide, this workbook gives students key insights from the acknowledged world leader in project management. (PMI, PMBOK, CAPM, PMP, and Project Management Professional are registered marks of the Project Management Institute, Inc.)