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Innovation is the means by which organizations survive and thrive in uncertain and turbulent conditions. Innovation management has become a well-established field of research, teaching and practice, with a substantial literature. As a broad-based research field, contributions stem from an array of perspectives including science, economics, engineering and psychology. Innovation is crucial for economic and social progress, and it needs to be managed in order to be beneficial. Innovation Management: A Research Overview provides a concise introduction to the best research on innovation management. It covers four main themes: foundational studies, key concepts and frameworks, important empirical studies, and current and emerging themes. The research discussed includes classic studies, with core insights in the field, key thinking on strategies and processes for innovation, well-established and novel research methods, and issues of greatest contemporary importance. This shortform book provides direction through the maze of research on the nature, processes and outcomes of innovation management, and provides an invaluable introduction to the literature on innovation management for students and professionals.
Due to its societal and economic relevance, Project Management (PM) has become an important discipline and a concept critical to modern organizations, public and private. PM as an academic discipline is discussed both in Management Science and in Operations Research. Management Science tends to focus on quantitative tools and the soft skills necessary to manage projects successfully. Operations Research gives the essential scientific contribution to the success of project management through the development of models and algorithms. In Man-

agement Science, Operations Research and Project Management, José Ramón San Cristóbal Mateo fills the gap between scientific research and the practical application of that research. Project managers need formal training in decision-making but sometimes, they do not have an in-depth knowledge of Operations Research or they lack the necessary theoretical background. This book, with its focus on the quantitative models of Operations Research and Management Science applied to Project Management, provides project managers with the tools and methods necessary to manage projects successfully. Project managers operate in a complex global environment, in which numerous factors need to be considered, such as minimizing total project costs, meeting contracted dates, and ensuring that activities achieve certain quality levels. The focus here on the application of quantitative models of Operations Research and Management Science applied to Project Management provides them with the tools and methods necessary to make sound decisions.

For undergraduate courses in Management Science. A logical, step-by-step approach to complex problem-solving Using simple, straightforward examples to present complex mathematical concepts, Introduction to Management Science gives students a strong foundation in how to logically approach decision-making problems. Sample problems are used liberally throughout the text to facilitate the learning process and demonstrate different quantitative techniques. Management Science presents modeling techniques that are used extensively in the business world and provides a useful framework for problem-solving that students can apply in the workplace. The Twelfth Edition focuses on the latest technological advances used by businesses and organizations for solving problems and leverages the latest versions of Excel 2013, Excel QM, TreePlan, Crystal Ball, Microsoft Project 2010, and QM for Windows.

The book demonstrates the skills needed to be a successful operations manager and gives an understanding of qualitative and quantitative operations management processes.

Biochar is the carbon-rich product when biomass (such as wood, manure or crop residues) is heated in a closed container with little or no available air. It can be used to improve agriculture and the environment in several ways, and its stability in soil and superior nutrient-retention properties make it an ideal soil amendment to increase crop yields. In addition to this, biochar sequestration, in combination with sustainable biomass production, can be carbon-negative and therefore used to actively remove carbon dioxide from the atmosphere, with major implications for mitigation of climate change. Biochar production can also be combined with bioenergy production through the use of the gases that are given off in the pyrolysis process. This book is the first to synthesize the expanding research literature on this topic. The book's interdisciplinary approach, which covers engineering, environmental sciences, agricultural sciences, economics and policy, is a vital tool at this stage of biochar technology development. This comprehensive overview of current knowledge will be of interest to advanced students, researchers and professionals in a wide range of disciplines.

Businesses around the

world are increasingly turning to an exciting new branch of management known as corporate sustainability management (CSM) to help them better understand and manage their non-financial performance. Indeed, what we are witnessing is nothing less than the birth of a new management function. The main pillar of CSM is the Triple Bottom Line (TBL), which has been successful as an organizing principle but a disappointment in practice. This is largely due to the absence of 'sustainability context' in related measurement, management and reporting efforts, when for example the monitoring of a company's use of freshwater resources fails to take into account the size of related supplies. This book is the first to introduce a systematic means of including context in sustainability management and doing effective CSM. After making the case for why context matters, the book explains how to do context-based CSM by providing a stepwise, cyclical blueprint for how to practice it in any organization. This includes a template for context-based metrics compatible with the Global Reporting Initiative (GRI), as well as specific examples of metrics for each of the triple bottom lines. Practical examples of best practices are presented throughout, while simultaneously addressing key issues, such as how organizations can measure performance against context-based standards when consensus for such standards does not yet exist. Appendices include tools for developing and applying context-based metrics, as well as case studies taken from the practice of context-based CSM at two companies in the United States. This guide is the essential tool for business and organizational leaders in all sectors committed to improving their sustainability performance, with a particular emphasis on measurement, management and reporting.

What isn’t management and why doesn’t it matter? This compelling book leads the reader away from the stories told by managers and management theories to show the secret history of the field. In characterizing the progress of management as a war on workers, this book offers a controversial and revealing alternative intellectual history of this overwhelming discipline. The author employs a unique range of theories and sources, including the founding fathers of management, US labour and social history, and earlier intellectual figures such as Marx and Weber alongside the contemporary insights of Foucault and European and American workerist and post-workerist thought, to shed light on the world of management. This book is key reading for researchers and students across the social sciences. With a controversial and stimulating approach, it also engages readers with a general interest in business and management issues. Are managers neoliberalism’s executioners? Read more from this author here.

Risk science is becoming increasingly important as businesses, policymakers and public sector leaders are tasked with decision--making and investment using varying levels of knowledge and information. Risk Science: An Introduction explores the theory and practice of risk science, providing concepts and tools for understanding and acting under conditions of uncertainty. The chapters in this work cover the fundamental concepts, principles, approaches, methods and models for how to unders-

tand, assess, communicate, manage and govern risk. These topics are presented and examined in a way which details how they relate, for example, how to characterize and communicate risk with particular emphasis on reflecting uncertainties; how to distinguish risk perception and professional risk judgments; how to assess risk and guide decision-makers, especially for cases involving large uncertainties and value differences; and how to integrate risk assessment with resilience-based strategies. The text provides a variety of examples and case studies that relate to highly visible and relevant issues facing risk academics, practitioners and non-risk leaders who must make risk-related decisions. Presenting both the foundational and most recent advancements in the subject matter, this work particularly suits students of risk science courses at college and university level. The book also provides broader key reading for students and scholars in other domains, including business, engineering and public health.

It seems, at first glance, like an obvious step to take to improve industrial productivity: one should simply watch workers at work in order to learn how they actually do their jobs. But American engineer FREDERICK WINSLOW TAYLOR (1856-1915) broke new ground with this 1919 essay, in which he applied the rigors of scientific observation to such labor as shoveling and bricklayer in order to streamline their work... and bring a sense of logic and practicality to the management of that work. This highly influential book, must-reading for anyone seeking to understand modern management practices, puts lie to such misconceptions that making industrial processes more efficient increases unemployment and that shorter workdays decrease productivity. And it laid the foundations for the discipline of management to be studied, taught, and applied with methodical precision.

This best-selling introduction to the techniques and applications of management science is designed to make the subject easy to understand, interesting, and accessible for readers with limited mathematical background or skills. The book focuses on management science not only as a collection of techniques and processes, but as a philosophy and method for approaching problems in a logical manner.KEY TOPICS: Following a Òbegin-from-the-basicsÓ approach for all topics, this book provides comprehensive coverage and flexible organization but does not assume an understanding of the mathematical underpinnings of any topic on the part of the reader. Each short, easy--to-read chapter centers around simple, straightforward examples that demonstrate the fundamentals of the techniques and provide specific solution steps that can be applied to other situations. Demonstrates how management science techniques can improve efficiency and save money. It also interweaves computer usage throughout every chapter. The sixth edition of Introduction to Management Science has been revised to reflect the most up-to-date practices and techniques. It now includes a revised discussion on the modeling process and new discussions the Analytical Hierarchy Procedure (AHP) and Multiple Regression. It also includes Excel Spreadsheet Solutions, including Excel QM, Crystal Ball software, and TreePlan software. An essential reference book for every professional manager.ÿ

This book is an expository introduction to the methodology of sensitivity analysis of model output. It is primarily intended for investigators, students and researchers that are familiar with mathematical models but are less familiar with the techniques for performing their sensitivity analysis. A variety of sensitivity methods have been developed over the years. This monograph helps the analyst in her/his first exploration of this world. The main goal is to foster the recognition of the crucial role of sensitivity analysis methods as the techniques that allow us to gain insights from quantitative models. Also, exercising rigor in performing sensitivity analysis becomes increasingly relevant both to decision makers and modelers. The book helps the analyst in structuring her/his sensitivity analysis quest properly, so as to obtain the correct answer to the corresponding managerial question. The first part of the book covers Deterministic Methods, including Tornado Diagrams; One-Way Sensitivity Analysis; Differentiation-Based Methods and Local Sensitivity Analysis with Constraints. The second part looks at Probabilistic Methods, including Regression-Based methods, Variance-Based Methods, and Distribution-Based methods. The final section looks at Applications, including capital budgeting, sensitivity analysis in climate change modelling and in the risk assessment of a lunar space mission.

Includes Case Studies from a Range of Event Sites Introduction to Crowd Science examines the growing rate of crowd-related accidents and incidents around the world. Using tools, methods, and worked examples gleaned from over 20 years of experience, this text provides an understanding of crowd safety. It establishes how crowd accidents and incidents (specifically mass fatalities in crowded spaces) can occur. The author explores the underlying causes and implements techniques for crowd risk analysis and crowd safety engineering that can help minimize and even eliminate occurrences altogether. Understand Overall Crowd Dynamics and Levels of Complex Structure The book outlines a simple modeling approach to crowd risk analysis and crowds safety in places of public assembly. With consideration for major events, and large-scale urban environments, the material focuses on the practical elements of developing the crowd risk analysis and crowd safety aspects of an event plan. It outlines a range of modeling techniques, including line diagrams that represent crowd flow, calculations of the speed at which a space can fill, and the time it takes for that space to reach critical and crush density. It also determines what to consider during the event planning and approval (licensing/permitting) phases of the event process. Introduction to Crowd Science addresses key questions and presents a systematic approach to managing crowd risks in complex sites. It provides an understanding of the complexity of a site, that helps youplan for crowds in public places.

Featuring an ideal balance of managerial issues and quantitative techniques, this introduction to operations management keeps pace with current innovations and issues in the field. It presents the concepts clearly and logically, showing readers how OM relates to real business. The new edition also integrates the experiences of a real company throughout each chapter to clear-

ly illustrate the concepts. Readers will find brief discussions on how the company manages areas such as inventory and forecasting to provide a real-world perspective.

Covering the standard management science topics, this work shows traditional methods for solving management science problems. This edition includes an integration of using Microsoft Excel.

This encyclopedia of Jews and Judaism throughout the world includes material about youth groups and hostels in Israel.

This is the classic practical introduction to the broad principles of building management. It is suitable for both students and practising construction professionals who are concerned with greater efficiency within the construction industry. As a general textbook for the student, the introduction covers the entire field in some depth providing a firm foundation for additional reading. The text is closely geared to the chartered Institute of Building (Member) Parts I and II examinations. The book includes examples based upon and related to working experience. It will also be found valuable by students reading for the examinations of other professional bodies in the construction industry, and by HNC/D students.

This book comprises an introduction to information as an external commodity; a data base that can be manipulated, retrieved, transmitted, and used. It is useful at an introductory undergraduate level and also for anyone who is new to the field of Information Science.

Introduction to Management Science gives students a strong foundation in how to make decisions and solve complex problems using both quantitative methods and software tools. In addition to extensive examples, problem sets, and cases, the 13th Edition incorporates Excel 2016 and other software resources, developing students' ability to leverage the technology they will use throughout their careers. By practicing these modelling techniques, students gain a useful framework for problem-solving that they can then apply in the workplace.

Introducing an important new expression of management science called the Theory of Constraints (TOC), this book helps busy executives and professionals quickly learn and implement TOC principles. Introduction to the Theory of Constraints (TOC) Management System organizes several proven TOC principles, processes, and solutions into a TOC management system that has been successfully applied to everything from manufacturing industries to health care. The Theory of Constraints is based on the scientific method that has been developed and refined for nearly three decades by Dr. Eli Goldratt. The TOC management system offers management techniques that are sound, practical, and can be applied to nearly every company, project, or personal endeavor imaginable. It has created fundamentally new ways of managing, and has dramatically improved the ability of hundreds of thousands of individuals to make smart decisions on a daily basis. If you've read Eli Goldratt's bestselling books and wondered how to put his ideas to work, Introduction to the Theory of Constraints (TOC) Management System tells what TOC is, where it came from, who uses it, and how to get started with it.

Introduction to Management Science, 2e offers a unique case study approach and integrates the

use of Excel. Each chapter includes a case study that is meant to show the students a real and interesting application of the topics addressed in that chapter. This most recent revision has been thoroughly updated to be more "user-friendly" and more technologically advanced. These changes include, a completely new chapter on the art of modeling with spreadsheets. This unique chapter goes far beyond anything found in other textbooks and are based on the award winning methodologies used by Mark Hillier in his own course. The technology package has also been greatly enhanced to include, Crystal Ball 2000 (Professional Edition) a Management Science Online Learning Center, and an Excel add-in called Alver Table for performing sensitivity analysis. Crystal Ball is the most popular Excel add-in for computer simulation and includes OptQuest (an optimizer with simulation) as well as a forecasting module. The Management Science Online Learning Center (website) includes several modules that enable students to interactively explore certain management science techniques in depth. Solver Table is an Excel add-in developed by the author to help perform sensitivity analysis systematically, as well as substantially expanded coverage of computer simulation, including Crystal Ball. We now have two chapters on computer simulation instead of one, where the second chapter features the use of Crystal Ball.all.

Never HIGHLIGHT a Book Again! Virtually all of the testable terms, concepts, persons, places, and events from the textbook are included. Cram101 Just the FACTS101 studyguides give all of the outlines, highlights, notes, and quizzes for your textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific. Accompanys: 9780136064367 9780137070619 .

Of all the sciences and social sciences, management is the one that most deliberately turns its back on the past. Yet management as we know it today did not spring into life fully formed. Management has more than just a present; it also has a past, and a future, and all three are inextricably linked. This book charts the evolution of management as an intellectual discipline, from ancient times to the present day. Contemporary management challenges, including sustainability, technology and data, and legitimacy are analysed through an historical lens and with the benefit of new case studies. The author helps readers understand how the evolution of management ideas has interacted with changes in society. By framing management's history as one of challenge and response, this new edition is the perfect accompaniment for students and scholars seeking meaningful study in the business school and beyond. Essential reading as a core textbook in management history, the book is also valuable supplementary reading across the humanities and social sciences.

Never HIGHLIGHT a Book Again! Virtually all of the testable terms, concepts, persons, places, and events from the textbook are included. Cram101 Just the FACTS101 studyguides give all of the outlines, highlights, notes, and quizzes for your textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific. Accompanys: 9780131424395 9780131241213 .

This text combines the market leading writing and presentation skills of

Bill Stevenson with integrated, thorough, Excel modeling from Ceyhun Ozgur. Professor Ozgur teaches Management Science, Operations, and Statistics using Excel, at the undergrad and MBA levels at Valparaiso University --and Ozgur developed and tested all examples, problems and cases with his students. The authors have written this text for students who have no significant mathematics training and only the most elementary experience with Excel.

Though mathematical ideas underpin the study of neural networks, the author presents the fundamentals without the full mathematical apparatus. All aspects of the field are tackled, including artificial neurons as models of their real counterparts; the geometry of network action in pattern space; gradient descent methods, including back-propagation; associative memory and Hopfield nets; and self-organization and feature maps. The traditionally difficult topic of adaptive resonance theory is clarified within a hierarchical description of its operation. The book also includes several real-world examples to provide a concrete focus. This should enhance its appeal to those involved in the design, construction and management of networks in commercial environments and who wish to improve their understanding of network simulator packages. As a comprehensive and highly accessible introduction to one of the most important topics in cognitive and computer science, this volume should interest a wide range of readers, both students and professionals, in cognitive science, psychology, computer science and electrical engineering.

A key goal of fisheries management is to regulate extractive pressure on a resource so as to ensure social, economic and ecological sustainability. This text provides an accessible entry point for students and professionals to management science as developed in fisheries, in order to facilitate uptake of the latest ideas and methods. Traditional management approaches have relied upon a stock assessment based on existing understanding of resource status and dynamics, and a prediction of the likely future response to a static management proposal. However all such predictions include an inherent degree of uncertainty, and the last few decades have seen the emergence of an adaptive approach that uses feedback control to account for unknown future behaviour. Feedback is achieved via a control rule, which defines a relationship between perceived status of the resource and a management action. Evaluations of such rules usually include computer simulation testing across a broad range of uncertainties, so that an appropriate and robust rule can be selected by stakeholders and managers. The book focuses on this approach, which is usually referred to as Management Strategy Evaluation. The book is enriched by case study examples from different parts of the world, as well as insights into the theory and practice from those actively involved in the science of fisheries management.

This volume provides an applications-oriented introduction to the role of management science in decision-making. The text blends problem formulation, managerial interpretation, and math techniques with an emphasis on problem solving.