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BBB - LAYLAH CUNNINGHAM

This reference outlines the fundamental concepts and strategies for economic assessments for informed management decisions in industry. The book illustrates how to prepare capital cost and operating expense estimates, profitability analyses, and feasibility studies, and how to execute sensitivity and uncertainty assessments. From financial reports to opportunity costs and engineering trade-offs, Process Engineering Economics considers a wide range of alternatives for profitable investing and for projecting outcomes in various chemical and engineering fields. It also explains how to monitor costs, finances, and economic limitations at every stage of chemical project design, preparation, and evaluation.

General considerations; Application of project appraisal techniques; Budgetary problems and financial planning.

Engineering Economic and Cost Analysis is a practical introduction for those engineering students and professional practitioners who are new to the study of engineering economics.

This book is designed to introduce designers, engineers, technologists, estimators, project managers, and financial analysts as well as students in engineering and business to strategic cost tools for project cost evaluations. The three main sections are as follows. (1) Cost Relationships, Financial Statements, and Performance Measures—This section describes the relationships between cash flows and profits; the relationships between financial statements and the Purcell Diagram; and the issues of cost estimating, time-based breakeven analysis and time-based earned schedule. (2) Tools for Economic Evaluations—This section considers the basic mathematical relations used behind the economic equations and factors; discrete and continuous interest; depreciation terms and methods; and the Present Value of Principal Approach for evaluating loans. (3) Methods for Project Evaluation and Risk Analysis—This section considers payback periods, present worth analysis, return on investment, internal rate of return, benefit/cost ratios and positive-negative project balances; risk techniques of sensitivity analysis, optimistic-pessimistic analysis, discrete probability examples, and continuous probability models using the normal and triangular distributions.

After an introductory chapter explaining recent applications of fuzzy sets in IE, this book explores the seven major areas of IE to which fuzzy set theory can contribute: Control and Reliability, Engineering Economics and Investment Analysis, Group and Multi-criteria Decision-making, Human Factors Engineering and Ergonomics, Manufacturing Systems and Technology Management, Optimization Techniques, and Statistical Decision-making. Under these major areas, every chapter includes didactic numerical applications.

This textbook presents methodology methodologies and applications associated with multiple criteria decision analysis (MCDA), especially for those students with an interest in industrial engineering. With respect to methodology, the book presents covers (1) problem structuring methods; (2) methods for ranking multi-dimensional deterministic outcomes including multiattribute value theory, the analytic hierarchy process, the Technique for Order Preference by Similarity to Ideal Solution (TOPSIS), and outranking techniques; (3) goal programming; (4) methods for describing preference structures over single and multi-dimensional probabilistic outcomes (e.g., utility functions); (5) decision trees and influence diagrams; (6) methods for determining input probability distributions for decision trees, influence diagrams, and general simulation models; and (7) the use of simulation modeling for decision analysis. This textbook also offers: . Easy to follow descriptions of how to apply a wide variety of MCDA techniques . Specific examples involving multiple objectives and/or uncertainty/risk of interest to industrial engineers . A The section on outranking techniques discusses; the group of techniques, which is popular in Europe, but is very rarely mentioned as a methodology for MCDA in the USUnited States . A chapter on simulation as a useful tool for MCDA, including ranking & and selection procedures. Such material which is rarely covered in courses in decision analysis . Both material review questions and problems at the end of each chapter the . Solutions solutionscan b are provided e found in the solutions Solutions manual Manual which will be provided along with PowerPoint slides for each chapter. The methodology is ies are demonstrated through the use of applications of interest to industrial engineers, including those involving product mix optimization, supplier selection, distribution center location and transportation planning, resource allocation and scheduling of a medical clinic, staffing of a call center, quality control, project management, production and inventory control, etcand so on. Specifically, industrial engineering problems are structured as classical problems in multiple criteria decision analysis, and the relevant methodologies are demonstrated."

The book "Industrial Engineering and Management" covers the syllabus of the subjects Industrial Engineering, Industrial Management, Production Planning and Control, Production Management, Engineering Economics and Costing, Industrial Organization, Principles of Management prescribed by different Indian Universities. The book is also useful for the students of management courses, section B of AIME, and U.P.S.C Engineering Services Examination. Efforts have been made to present the subject-matter in concise, compact and simple language. The theoretical concepts have been supported by large number of numerical illustrations to provide clarity.

This book is designed to introduce designers, engineers, technologists, estimators, project managers, and financial analysts as well as students in engineering and business to strategic cost tools for project cost evaluations. The three main sections are as follows. (1) Cost Relationships, Financial Statements, and Performance Measures—This section describes the relationships between cash flows and profits; the relationships between financial statements and the Purcell Diagram; and the issues of cost estimating, time-based breakeven analysis and time-based earned schedule. (2) Tools for Economic Evaluations—This section considers the basic mathematical relations used behind the economic equations and factors; discrete and continuous interest; depreciation terms and methods; and the Present Value of Principal Approach for evaluating loans. (3) Methods for Project Evaluation and Risk Analysis—This section considers payback periods, present worth analysis, return on investment, internal rate of return, benefit/cost ratios and positive-negative project balances; risk techniques of sensitivity analysis, optimistic-pessimistic analysis, discrete probability examples, and continuous probability models using the normal and triangular distributions.

Presents engineering economy in the content context of the entire decision-making framework. Features a four-part structure that starts with the basics of engineering economy and then walks through each step in the decision-making process. Includes examples throughout the book that stem

from real-life applications. Introduces and integrates the use of computers and spreadsheets in economic analysis. For engineering professionals looking for increased awareness of the issues involved with engineering economics.

The different investment analysis approaches require various interest formulas and their values. A fairly large problem involving different types of transactions in its cash-flows may take more time to solve it, if the students compute the values of the related interest formulas and then make substitutions in the respective expressions of the investment analysis. This book gives values of different interest factors, (F/P,i,n), (P/F,i,n), (F/A,i,n), (A/F,i,n), (P/A,i,n), (A/P,i,n) and (A/G,i,n) for different combinations of interest rate (i) and interest period (n) in the form of tables, to serve as an aid for solving problems in "Engineering Economics" in the Examination Hall. These Interest Tables can also be usefully employed for field work while doing engineering economics analysis. The tables will be useful to students of different B.Tech. programmes and to students of M.Com and M.B.A. programmes for solving different investment analysis problems.

Praised for its accessible tone and extensive problem sets, this trusted text familiarizes students with the universal principles of engineering economics. This essential introduction features a wealth of specific Canadian examples and has been fully updated with new coverage of inflation and environmental stewardship as well as a new chapter on project management.

The fourth edition of this text continues to be a comprehensive, authoritative and interesting resource for introductory and advanced courses in Engineering Economics. This new edition has streamlined the material into 15 accessible, readable chapters. The sequence of chapters flows through: 1) Fundamentals required for economic analysis; 2) Structural/procedures for performing those analyses; 3) Specific considerations for the public sector; 4) Depreciation and income tax considerations; 5) Inflation/considerations; and 6) Advanced concepts, including risk and decision. An emphasis on a clear, interesting writing style with numerous examples and review exercises offsets traditional ideas that the subject matter can be dull.

Geometric programming is used for design and cost optimization and the development of generalized design relationships and cost ratios for specific problems. The early pioneers of the process, Zener, Duffin, Peterson, Beightler, and Wilde, played important roles in the development of geometric programming. The theory of geometric programming is presented and 10 examples are presented and solved in detail. The examples illustrate some of the difficulties encountered in typical problems and techniques for overcoming these difficulties. The primal-dual relationships are used to illustrate how to determine the primal variables from the dual solution. These primal-dual relationships can be used to determine additional dual equations when the degrees of difficulty are positive. The goal of this work is to have readers develop more case studies to further the application of this exciting mathematical tool. Table of Contents: Introduction / Brief History of Geometric Programming / Theoretical Considerations / Trash Can Case Study / Open Cargo Shipping Box Case Study / Metal Casting Cylindrical Riser Case Study / Process Furnace Design Case Study / Gas Transmission Pipeline Case Study / Journal Bearing Design Case Study / Metal Casting Hemispherical Top Cylindrical Side Riser / Liquefied Petroleum Gas(LPG) Cylinders Case Study / Material Removal/Metal Cutting Economics Case Study / Summary and Future Directions

Innovation, in economic activity, in managerial concepts and in engineering design, results from creative activities, entrepreneurial strategies and the business climate. Innovation leads to technological, organizational and commercial changes, due to the relationships between enterprises, public institutions and civil society organizations. These innovation networks create new knowledge and contribute to the dissemination of new socio-economic and technological models, through new production and marketing methods. Innovation Economics, Engineering and Management Handbook 1 is the first of the two volumes that comprise this book. The main objectives across both volumes are to study the innovation processes in today's information and knowledge society; to analyze how links between research and business have intensified; and to discuss the methods by which innovation emerges and is managed by firms, not only from a local perspective but also a global one. The studies presented in these two volumes contribute toward an understanding of the systemic nature of innovations and enable reflection on their potential applications, in order to think about the meaning of growth and prosperity.

Geometric programming is used for design and cost optimization, the development of generalized design relationships, cost ratios for specific problems, and profit maximization. The early pioneers of the process - Zener, Duffin, Peterson, Beightler, Wilde, and Phillips -- played important roles in the development of geometric programming. There are three major areas: 1) Introduction, History, and Theoretical Fundamentals, 2) Applications with Zero Degrees of Difficulty, and 3) Applications with Positive Degrees of Difficulty. The primal-dual relationships are used to illustrate how to determine the primal variables from the dual solution and how to determine additional dual equations when the degrees of difficulty are positive. A new technique for determining additional equations for the dual, Dimensional Analysis, is demonstrated. The various solution techniques of the constrained derivative approach, the condensation of terms, and dimensional analysis are illustrated with example problems. The goal of this work is to have readers develop more case studies to further the application of this exciting tool. Table of Contents: Introduction / Brief History of Geometric Programming / Theoretical Considerations / The Optimal Box Design Case Study / Trash Can Case Study / The Open Cargo Shipping Box Case Study / Metal Casting Cylindrical Riser Case Study / Inventory Model Case Study / Process Furnace Design Case Study / Gas Transmission Pipeline Case Study / Profit Maximization Case Study / Material Removal/Metal Cutting Economics Case Study / Journal Bearing Design Case Study / Metal Casting Hemispherical Top Cylindrical Side Riser\Case Study / Liquefied Petroleum Gas (LPG) Cylinders Case Study / Material Removal/Metal Cutting Economics with Two Constraints / The Open Cargo Shipping Box with Skids / Profit Maximization Considering Decreasing Cost Functions of Inventory Policy / Summary and Future Directions / Thesis and Dissertations on Geometric Programming

This second edition of the classic textbook has been written to provide a completely up-to-date text for students of mechanical, industrial, manufacturing and production engineering, and is an indispensable reference for professional industrial engineers and managers. In his outstanding book, Professor Katsundo Hitomi integrates three key themes into the text: * manufacturing technology * production management * industrial economics Manufacturing technology is concerned with the flow of

materials from the acquisition of raw materials, through conversion in the workshop to the shipping of finished goods to the customer. Production management deals with the flow of information, by which the flow of materials is managed efficiently, through planning and control techniques. Industrial economics focuses on the flow of production costs, aiming to minimize these to facilitate competitive pricing. Professor Hitomi argues that the fundamental purpose of manufacturing is to create tangible goods, and it has a tradition dating back to the prehistoric toolmakers. The fundamental importance of manufacturing is that it facilitates basic existence, it creates wealth, and it contributes to human happiness - manufacturing matters. Nowadays we regard manufacturing as operating in these other contexts, beyond the technological. It is in this unique synthesis that Professor Hitomi's study constitutes a new discipline: manufacturing systems engineering - a system that will promote manufacturing excellence. Key Features: * The classic textbook in manufacturing engineering * Fully revised edition providing a modern introduction to manufacturing technology, production management and industrial economics * Includes review questions and problems for the student reader

Coverage of all cost analysis strategies in easy-to-understand language. Planning & execution of projects lucidly explained with worked examples. Techniques for successful management of projects explained clearly. Before and After-tax cash flow analysis

Designed as a textbook for undergraduate students in various engineering disciplines—Mechanical, Civil, Industrial Engineering, Electronics Engineering and Computer Science—and for postgraduate students in Industrial Engineering and Water Resource Management, this comprehensive and well-organized book, now in its Second Edition, shows how complex economic decisions can be made from a number of given alternatives. It provides the managers not only a sound basis but also a clear-cut approach to making decisions. These decisions will ultimately result in minimizing costs and/or maximizing benefits. What is more, the book adequately illustrates the concepts with numerical problems and Indian cases. While retaining all the chapters of the previous edition, the book adds a number of topics to make it more comprehensive and more student friendly. What's New to This Edition • Discusses different types of costs such as average cost, recurring cost, and life cycle cost. • Deals with different types of cost estimating models, index numbers and capital allowance. • Covers the basics of nondeterministic decision making. • Describes the meaning of cash flows with probability distributions and decision making, and selection of alternatives using simulation. • Discusses the basic concepts of Accounting. This book, which is profusely illustrated with worked-out examples and a number of diagrams and tables, should prove extremely useful not only as a text but also as a reference for those offering courses in such areas as Project Management, Production Management, and Financial Management.

This book presents the outcomes of the annual "Engineering Economics Week - 2020," organized by the Russian Union of Industrialists and Entrepreneurs, the Institute of Management and the Institute of Market Problems of the Russian Academy of Sciences (RAS), the South-Russian State Polytechnic University and Samara State University of Economics, and held in online format in May 2020. Focusing on the following topics: - the globalized economy and Russian industrial enterprises: development specifics and international co-operation; - state support for the real sector of the economy; - decisions in production and project management in the context of the digital economy; - big data and big challenges in production networks and systems; and - economic and social aspects of the innovation management: decision-making and control this book will appeal to scientists, teachers and students (bachelor's, master's and postgraduate) at higher education institutions, economists, specialists at research centers, managers of industrial enterprises, business professionals, and those at media centers, and development fund and consulting organizations.

The purpose of the 4th International Asia Conference on Industrial Engineering and Management Innovation (IEMI 2013) is to bring together researchers, engineers and practitioners interested in the application of informatics to usher in new advances in the industrial engineering and management fields.

In February 2002, the Industrial and Systems Engineering (ISE) Department at the University of Florida hosted a National Science Foundation Workshop on Collaboration and Negotiation in Supply Chain Management and E-Commerce. This workshop focused on characterizing the challenges facing leading edge firms in supply chain management and electronic commerce, and identifying research opportunities for developing new technological and decision support capabilities sought by industry. The audience included practitioners in the areas of supply chain management and E-Commerce, as well as academic researchers working in these areas. The workshop provided a unique setting that has facilitated ongoing dialog between academic researchers and industry practitioners. This book codifies many of the important themes and issues around which the workshop discussions centered. The editors of this book, all faculty members in the ISE Department at the University of Florida, also served as the workshop's coordinators. In addition to workshop participants, we also invited contributions from leading academics and practitioners who were not able to attend. As a result, the chapters herein represent a collection of research contributions, monographs, and case studies from a variety of disciplines and viewpoints. On the academic side alone, chapter authors include faculty members in supply chain and operations management, marketing, industrial engineering, economics, computer science, civil and environmental engineering, and building construction departments.

This open access book explores supply chains strategies to help companies face challenges such as societal emergency, digitalization, climate changes and scarcity of resources. The book identifies industrial scenarios for the next decade based on the analysis of trends at social, economic, environmental technological and political level, and examines how they may impact on supply chain processes and how to design next generation supply chains to answer these challenges. By mapping enabling technologies for supply chain innovation, the book proposes a roadmap for the full implementation of the supply chain strategies based on the integration of production and logistics processes. Case studies from process industry, discrete manufacturing, distribution and logistics, as well as ICT providers are provided, and policy recommendations are put forward to support companies in this transformative process.

Economic and Financial Analysis for Engineering and Project Management is for engineers and others who must analyze the financial and economic ramifications of producing and sustaining capital projects. Unlike other books in the field, it offers straightforward and lucid explanations of all main formulas needed to carry out financial analyses. The math is kept simple and is fully explained, making the book accessible to non-technical personnel. Numerous sample problems are provided, and can be worked on standard spreadsheet programs, as well as using interest rate tables. The book shows how to link quantitative data to management decisions and to standard reporting forms and has been designed for practicing engineers and students alike. Economic and Financial Analysis for Engineering and Project Management is a "must have" for graduate students in engineering management departments; graduate and undergraduates taking courses in project management, engineering economics, and engineering finance. Practicing engineers will find this book THE handy reference for any project involving financial analyses.

For all engineers and practitioners, it is essential to have a fundamental understanding of cost structure, estimating cash flows, and evaluating alternative projects and designs on an economic basis. Engineering Economics for Aviation and Aerospace provides the tools and techniques necessary for

engineers to economically evaluate their projects and choices. The focus of this book is on a comprehensive understanding of the theory and practical applications of engineering economics. It explains and demonstrates the principles and techniques of engineering economics and financial analysis as applied to the aviation and aerospace industries. Time value of money, interest factors, and spreadsheet functions are used to evaluate the cash flows associated with a single project or multiple projects. The alternative engineering economics tools and techniques are utilized in separate chapters to evaluate the attractiveness of a single project or to select the best of multiple alternatives. Most of the engineering economics and financial mathematics books available in the market take either a pure theoretical approach or offer limited applications. This book incorporates both approaches, providing students of aviation and industrial economics, as well as practitioners, with the necessary mathematical knowledge to evaluate alternatives on an economic basis.

Although technology and productivity has changed much of engineering, many topics are still taught in very similarly to how they were taught in the 70s. Using a new approach to engineering economics, Systems Life Cycle Costing: Economic Analysis, Estimation, and Management presents the material that a modern engineer must understand to work as a practicing engineer conducting economic analysis. Organized around a product development process that provides a framework for the material, the book presents techniques such as engineering economics and simulation-based costing (SBC), with a focus on total life cycle understanding and perspective and introduces techniques for detailed analysis of modern complex systems. The author includes rules of thumb for estimation grouped with the methods, processes, and tools (MPTs) for conducting a detailed engineering buildup for costing. He presents the estimating costing of complex systems and software and then explores concepts such as design to cost (DTC), cost as an independent variable (CAIV), the role of commercial off-the-shelf technology, cost of quality, and the role of project management in LCC management. No product or services are immune from cost, performance, schedule, quality, risks, and tradeoffs. Yet engineers spend most of their formal education focused on performance and most of their professional careers worrying about resources and schedule. Too often, the design stage becomes about the technical performance without considering the downstream costs that contribute to the total life cycle costs (LCC) of a system. This text presents the methods, processes, and tools needed for the economic analysis, estimation, and management that bring these costs in line with the goals of pleasing the customer and staying within budget.

This book gathers extended versions of the best papers presented at the Global Joint Conference on Industrial Engineering and Its Application Areas (GJCIE), held in Nevsehir, Turkey, on June 21-22, 2018. They reports on industrial engineering methods and applications, with a special focus on the advantages and challenges posed by Big data in this field. The book covers a wide range of topics, including decision making, optimization, supply chain management and quality control.

More than any other book available, Risk Analysis in Engineering and Economics introduces the fundamental concepts, techniques, and applications of the subject in a style tailored to meet the needs of students and practitioners of engineering, science, economics, and finance. Drawing on his extensive experience in uncertainty and risk modeling and analysis, the author leads readers from the fundamental concepts through the theory, applications, and data requirements, sources, and collection. He emphasizes the practical use of the methods presented and carefully examines the limitations, advantages, and disadvantages of each. Case studies that incorporate the techniques discussed offer a practical perspective that helps readers clearly identify and solve problems encountered in practice. If you deal with decision-making under conditions of uncertainty, this book is required reading. The presentation includes more than 300 tables and figures, more than 100 examples, many case studies, and a wealth of end-of-chapter problems. Unlike the classical books on reliability and risk assessment, this book helps you relate underlying concepts to everyday applications and better prepares you to understand and use the methods of risk analysis.

The International Conference on Industrial Engineering and Engineering Management is sponsored by the Chinese Industrial Engineering Institution, CMES, which is the only national-level academic society for Industrial Engineering. The conference is held annually as the major event in this arena. Being the largest and the most authoritative international academic conference held in China, it provides an academic platform for experts and entrepreneurs in the areas of international industrial engineering and management to exchange their research findings. Many experts in various fields from China and around the world gather together at the conference to review, exchange, summarize and promote their achievements in the fields of industrial engineering and engineering management. For example, some experts pay special attention to the current state of the application of related techniques in China as well as their future prospects, such as green product design, quality control and management, supply chain and logistics management to address the need for, amongst other things low-carbon, energy-saving and emission-reduction. They also offer opinions on the outlook for the development of related techniques. The proceedings offers impressive methods and concrete applications for experts from colleges and universities, research institutions and enterprises who are engaged in theoretical research into industrial engineering and engineering management and its applications. As all the papers are of great value from both an academic and a practical point of view, they also provide research data for international scholars who are investigating Chinese style enterprises and engineering management.

Geometric Programming is used for cost minimization, profit maximization, obtaining cost ratios, and the development of generalized design equations for the primal variables. The early pioneers of geometric programming—Zener, Duffin, Peterson, Beightler, Wilde, and Phillips—played important roles in its development. Five new case studies have been added to the third edition. There are five major sections: (1) Introduction, History and Theoretical Fundamentals; (2) Cost Minimization Applications with Zero Degrees of Difficulty; (3) Profit Maximization Applications with Zero Degrees of Difficulty; (4) Applications with Positive Degrees of Difficulty; and (5) Summary, Future Directions, and Geometric Programming Theses & Dissertations Titles. The various solution techniques presented are the constrained derivative approach, condensation of terms approach, dimensional analysis approach, and transformed dual approach. A primary goal of this work is to have readers develop more case studies and new solution techniques to further the application of geometric programming.

Delivers a comprehensive textbook for a single-semester course in engineering economics/engineering economy for undergraduate engineering students.

Principles of Economics and Management for Manufacturing Engineering combines key engineering economics principles and applications in one easy to use reference. Engineers, including design, mechanical, and manufacturing engineers are frequently involved in economics-related decisions, whether directly when selecting materials or indirectly when managers make order quantity decisions based on their work. Having a knowledge of the management and economic activities that touch on engineering work is a core part of most foundational engineering qualifications and becomes even more important in industry. Covering a wide range of management and economic topics from the point-of-view of an engineer in industry, this reference provides everything needed to understand the commercial context of engineering work. Covers the full range of basic economic concepts as well as engineering economics topics Includes end of chapter questions and chapter summaries that make this an ideal self-study resource Provides step-by-step instructions for cost accounting for engineers

Engineers often find themselves tasked with the difficult challenge of developing a design that is both technically and economically feasible. A sharply focused, how-to book, *Engineering Economics and Economic Design for Process Engineers* provides the tools and methods to resolve design and economic issues. It helps you integrate technical and economic decision making, creating more profit and growth for your organization. The book puts methods that are simple, fast, and inexpensive within easy reach. Author Thane Brown sets the stage by explaining the engineer's role in the creation of economically feasible projects. He discusses the basic economics of projects — how they are funded, what kinds of investments they require, how revenues, expenses, profits, and risks are interrelated, and how cash flows into and out of a company. In the engineering economics section of the book, Brown covers topics such as present and future values, annuities, interest rates, inflation, and inflation indices. He details how to create order-of-magnitude and study grade estimates for the investments in a project and how to make study grade production cost estimates. Against this backdrop, Brown explores a unique scheme for producing an Economic Design. He demonstrates how using the Economic Design Model brings increased economic thinking and rigor into the early parts of

design, the time in a project's life when its cost structure is being set and when the engineer's impact on profit is greatest. The model emphasizes three powerful new tools that help you create a comprehensive design option list. When the model is used early in a project, it can drastically lower both capital and production costs. The book's uniquely industrial focus presents topics as they would happen in a real work situation. It shows you how to combine technical and economic decision making to create economically optimum designs and increase your impact on profit and growth, and, therefore, your importance to your organization. Using these time-tested techniques, you can design processes that cost less to build and operate, and improve your company's profit.

For Engineering Economics courses, found in departments of Industrial, Civil, Mechanical, and Electrical Engineering. This text is also useful for any individual interested in the field of Industrial, Civil, Mechanical and Electrical Engineering. From the author of the best-selling *Contemporary Engineering Economics* text, *Fundamentals of Engineering Economics* offers a concise, but in-depth coverage of all fundamental topics of Engineering Economics.