Fuzzy set approaches are suitable to use when the modeling of human knowledge is necessary and when human evaluations are needed. Fuzzy set theory is recognized as an important problem modeling and solution technique. It has been studied extensively over the past 40 years. Most of the early interest in fuzzy set theory pertained to representing uncertainty in human cognitive processes and to problems found in the social sciences, medical science, and to computer science field. In this book, the fuzzy set theory is used in the field of engineering-economics. It contains 15 original research and application chapters including different figures of fuzzy engineering economics. When no probabilistic values are available for states of nature, decisions are given under uncertainty. Fuzzy sets are a good tool for the operation research analyst facing uncertainty and subjectivity. The main purpose of this chapter is to present the role and importance of fuzzy sets in the economic decision making problem with the literature review of the most recent advances.

Capital budgeting problems with linear decision variables that can be either continuous or integer and where some or all of the associated cash flows are random variables which may be statistically dependent are considered. They are formulated as convex chance-constrained programming problems that can be approximated by ordinary (integer or noninteger) linear programming problems. The proposed procedure allows the explicit consideration of decision opportunities dealing with a deficit or surplus in periodic net cash flows such as the accumulation of an optimal cash reserve or inappropriate borrowing and lending opportunities and of penalties that to have if period deficits do occur or the probability constraints do happen to be violated.

The coverage of this book is very comprehensive, and it will serve as concise guide to a wide range of areas that are relevant to the Finance field. The book contains 25 chapters and also number of real life financial problems in the Indian context in addition to the illustrative problems.

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An introductory guide to the world of Finance The Basics of Finance is an accessible book for those who want to gain a better understanding of this field, but lack a strong business background. It covers essential concepts, tools, methods, and strategies in finance without delving too far into theory. Written by the experienced author team of Frank Fabozzi and Pamela Peterson Drake, this reliable resource discusses everything from financial instruments and markets to portfolio management techniques, understanding and analyzing financial statements, and different types of corporate financial strategy, planning, and policy. Explains, in a basic way, topics such as cash flow analysis, asset valuation, capital budgeting, and derivatives Provides a solid foundation in the field of finance that you can build upon over time. The field of finance is a vast one, and is constantly evolving. This book provides you with a framework for learning and understanding financial theory and practice, and equips you with the tools you need to succeed in today's fast-paced finance world. Wiley CPA Exam Review 2013 Edition includes up-to-date learning and higher grades in every subject. Each Outline presents all the essential course information in an easy-to-follow, topic-by-topic format. You also get hundreds of examples, solved problems, and practice questions, all based on the new CPA Exam and the recently released 2013 CPA exam testing specifications. If you're looking to learn more about finance, this is the book to turn to. Wiley CPA Exam Review 39th Edition covers all requirements for the CPA Exam, giving the candidate maximum flexibility in planning their course of study—and success.

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An essential guide to valuation techniques and financial analysis With the collapse of the economy and financial systems, many institutions are reevaluating what they are willing to spend money on. Project valuation is key to both cost-effectiveness and shareholder value. The purpose of this book is to provide a comprehensive examination of critical capital budgeting topics. Coverage extends from basic discussing concepts, principles, and practices to their application to increasingly complex, real-world situations. Throughout the book, the emphasis is how financially sound capital budgeting facilitates the process of value creation and discusses why various theories make sense and how firms can use them to solve problems and create wealth. Offers a strategic focus on the application of various techniques and approaches related to a firm's overall strategy. Provides coverage of international topics based on the premise that managers should view business from a global perspective. Emphasizes the importance of using real options Comprised of contributed chapters from both experienced professionals and academics, Capital Budgeting Valuation offers a variety of perspectives and a rich interplay of ideas related to important financial disciplines.

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Currently the methods of Co-Surviving are well used for risk analysis in budgeting: in e-commerce development, portfolio selection, Black-Scholes option pricing models, corporate acquisition strategies, evaluating investments in advanced manufacturing technology, interactive fuzzy interval reasoning for smart web shopping, fuzzy scheduling and logistics. An essential feature of economic development there are always uncertainties and risks. Therefore, the economic analysis and decision-making, in many cases, are multiple criteria ones. In this book, a new systematization of the problems of multiple decision criteria making is proposed which allows the author to reveal unsolved problems. The solutions of them are presented as well and implemented to deal with some important real-world problems such as investment project's evaluation, tool metal material selection problem, stock screening and fuzzy logistic. It is well known that the best results in real-world applications can be obtained using the synthesis of modern methods of soft computing. Therefore, the developed by the author new approach to building effective stock trading systems, based on the synthesis of fuzzy logic and the Dempster-Shafer theory, seems to be a considerable contribution to the application of soft computing in economics and finance. An important problem of capital budgeting is the fuzzy evaluation of the Internal Rate of Return. In this book, this problem is solved using a new approach which makes it possible to solve linear and nonlinear interval and fuzzy equations and systems of them. The developed new method allows the author to obtain an effective solution of the Lenveit's input-output problem in the interval setting.

As indicated by the title, this book focuses on fundamental problems in finance: a logical dilemma in valuation, stock valuation methods/models, risk valuation, and optimal capital structure. It presents an innovative approach to logic and quantitative reasoning (without advanced mathematics) that delivers valuable results—convincing solutions to these problems. Readers in finance will definitely be interested in these solutions as well as the methods. In fact, these fundamental problems are essential in the field of finance, and they have remained unsolved (or partly unsolved) for decades. The solutions offered in this book are all sound in theory and feasible in practice, and will hopefully benefit both theoretical and practical decision-making. Page 1/3

Quantitative finance is a combination of economics, accounting, statistics, econometrics, mathematics, stochastic process, and computer science and technology. Interestingly, the tools of financial analysis are being applied to assess, monitor, and mitigate risk, especially in the context of globalization, market volatility, and economic crisis. This two-volume handbook, comprised of over 100 chapters, is the most comprehensive resource in the field, integrating the most current theory, methodology, policy, and practical applications. Showcasing contributions from an international array of experts, the Handbook of Quantitative Finance and Risk Management is unparalleled in the breadth and depth of its coverage. Volume 1 presents an overview of quantitative finance and risk management research, covering the essential theories, policies, and empirical methodologies used in the field. Chapters provide in-depth discussion of portfolio theory and investment analysis. Volume 2 covers options and option pricing theory and risk management. Volume 3 presents a wide variety of models and analytical tools. Throughout, the handbook offers illustrative case examples, worked equations, and extensive references; additional features include chapter abstracts, keywords, and author and subject indices. From "arbitrage" to "yield spreads," the Handbook of Quantitative Finance and Risk Management will serve as an essential resource for academics, educators, students, policymakers, and practitioners.

Capital Budgeting is the foundation of business practice. The language of business is conceptualized in the Capital Budgeting process. The language of business is finance and business students are required to take one or more finance related courses when pursuing a business degree. This book will show through demonstrations how to apply basic logical math intelligence (LMI) in solving capital budgeting problems. Capital Budgeting for Functional Thinkers demonstrates, from a practitioner's perspective, how to effectively use basic math skills to solve capital budgeting problems. It presents a model for solving any capital budgeting problem by applying basic logical math intelligence. This book is application based and focused on applied problem solving visually demonstrating how calculations are performed.

Student community and teaching fraternity has diverse aspirations. This book fills aspiration gaps of teachers and students. Often, students find it difficult to practice in a progressive manner as the number of problems available, are not sufficient. Teachers on the other hand find it difficult to show variety of problems and diversity of topic due to class room limitations. This book fills the aspirations of teachers as well as students.

A convenient and up-to-date reference tool for today's financial and nonfinancial managers in public practice and private industry. If the very thought of budgets pushes your anxiety threshold to its maximum, the Handbook of Quantitative Finance and Risk Management will help you navigate your way through all the financial models, in a less stressful, and more effective manner. The new edition contains over 100 new chapters, activity-based budgeting, life cycle budgeting, Cloud computing, Balanced Scorecard, budgeting for nonprofit organizations, business simulations forensics and management training, and much more. Includes several new software packages, computer-based model spreadsheet applications, including Value Chain Analysis, Contextual Financial Planning and Project Finance software, Web 2.0 Cloud computing, and capital budgeting software. Case studies, illustrations, exhibits, forms, checklists, graphs, samples, and worked-out solutions to a wide variety of budgeting, planning, and control problems. Offers financial planning and new types of financial modeling, variance analysis, Web-based budgeting, active budgeting, integrating "what-if" analyses throughout, spreadsheet applications, break-even analysis, project analysis, and capital budgeting, capital budgeting, and beyond. This edition is packed with easy-to-use problems and up-to-date reference tool for today's financial and nonfinancial managers in public practice and private industry.
The book that fills the practitioner need for a distillation of the most important tools and concepts of corporate finance in today’s competitive business environment, companies must find innovative ways to enable rapid and sustainable growth not just to survive, but to thrive. Corporate Finance: A Practical Approach is designed to help financial analysts, executives, and investors achieve this goal with a practice-oriented distillation of the most important tools and concepts of corporate finance. Updated for a post-financial crisis environment, the Second Edition provides coverage of the most important issues surrounding modern corporate finance for the new global economy: Preserves the hallmark conciseness of the first edition while offering expanded coverage of key topics including dividend policy, share repurchases, and capital structure. Current, real-world examples are integrated throughout the book to provide the reader with a concrete understanding of critical business growth concepts. Examples and explanations are rigorous and global, but make minimal use of mathematics. Each chapter presents learning objectives which highlight key material, helping the reader glean the most effective business advice possible. Written by the experts at CFA Institute, the world’s largest association of professional investment managers. Created for current and aspiring financial professionals and investors alike, Corporate Finance focuses on the knowledge, skills, and abilities necessary to succeed in today’s global corporate world.