

6. (Sunk cost) The payment stream for apartment A is 1,000, 1,000, 1,000, 1,000, 1,000, 1,000 while for B it is 1,900, 900, 900, 900, 900, 900. At any interest rate  $PV_A < PV_B$  because the initial difference is less than the sum of the subsequent cash flow differences. Hence, they should not switch. For one year, the sign of the difference does depend on the interest rate. At 1% per month, the values are  $PV_A = \$11,367.62$  and  $PV_B = \$11,230.87$ , so they should switch.
7. (Short cut) The cash flow with waiting is  $(-1, 0, 0, x)$ . We know that  $PV = -1 + x/1.1^3 < -1 + 3/1.1^2$ . Hence  $x/1.1 < 3$  which means  $x < 3.3$ .
8. (Copy machines) Assume that the maintenance payments occur at the beginning of each year.

Incremental IRR from A to B: (Cash flows in \$1000)

$$f(c) = 0 = -24 + 6c + 6c^2 + 6c^3 + 6c^4 + 10c^5,$$

where

$$c = \frac{1}{1+r}.$$

Using Newton's method, we get  $c = 0.894112$ ,  $r = 0.118$  Thus,

$$IRR_{A-B} = 11.8\% > 10\%.$$

Incremental IRR from B to C: (Cash flows in \$1000)

$$f(c) = 0 = -5 + 0.4c + 0.4c^2 + 0.4c^3 + 0.4c^4 + 2c^5, \quad c = \frac{1}{1+r}$$

Using Newton's method ( $c_0 = 1.1$ ), we get  $c = 1.0862106$ ,  $r = -0.079$  Thus,

$$IRR_{B-C} = -7.9\%$$

A move from A to B is justified on the basis of IRR.

9. (An appraisal) Consider the PV of the two following payment streams:

(a) Change roof now, then every 20 years:

$$PV_1 = \$20,000 \times \sum_{i=0}^{\infty} \frac{1}{(1.05)^{20i}} = \$32,097$$

(b) Change roof in 5 years and then every 20 years:

$$PV_2 = \frac{PV_1}{(1.05)^5} = \$25,149$$

# Luenberger Investment Science Chapter Problem 8

**RM Cervero**



## **Luenberger Investment Science Chapter Problem 8:**

*Empirical Techniques in Finance* Ramaprasad Bhar, Shigeyuki Hamori, 2005-12-28 This book offers the opportunity to study and experience advanced empirical techniques in finance and in general financial economics. It is not only suitable for students with an interest in the field; it is also highly recommended for academic researchers as well as the researchers in the industry. The book focuses on the contemporary empirical techniques used in the analysis of financial markets and how these are implemented using actual market data. With an emphasis on Implementation, this book helps focusing on strategies for rigorously combining finance theory and modeling technology to extend extant considerations in the literature. The main aim of this book is to equip the readers with an array of tools and techniques that will allow them to explore financial market problems with a fresh perspective. In this sense, it is not another volume in econometrics. Of course, the traditional econometric methods are still valid and important; the contents of this book will bring in other related modeling topics that help more in depth exploration of finance theory and putting it into practice. As seen in the derivatives analysis, modern finance theory requires a sophisticated understanding of stochastic processes. The actual data analyses also require new Statistical tools that can address the unique aspects of financial data. To meet these new demands, this book explains diverse modeling approaches with an emphasis on the application in the field of finance.

**Advances in Battery Manufacturing, Service, and Management Systems** Jingshan Li, Shiyu Zhou, Yehui Han, 2016-09-19 Addresses the methodology and theoretical foundation of battery manufacturing service and management systems BM2S2 and discusses the issues and challenges in these areas. This book brings together experts in the field to highlight the cutting edge research advances in BM2S2 and to promote an innovative integrated research framework responding to the challenges. There are three major parts included in this book: manufacturing service and management. The first part focuses on battery manufacturing systems including modeling, analysis, design, and control, as well as economic and risk analyses. The second part focuses on information technology's impact on service systems such as data-driven reliability modeling, failure prognosis, and service decision making methodologies for battery services. The third part addresses battery management systems BMS for control and optimization of battery cells, operations, and hybrid storage systems to ensure overall performance and safety, as well as EV management. The contributors consist of experts from universities, industry research centers, and government agency. In addition, this book provides comprehensive overviews of lithium ion battery and battery electrical vehicle manufacturing, as well as economic returns and government support. Introduces integrated models for quality propagation and productivity improvement, as well as indicators for bottleneck identification and mitigation in battery manufacturing. Covers models and diagnosis algorithms for battery SOC and SOH estimation, data-driven prognosis algorithms for predicting the remaining useful life (RUL) of battery SOC and SOH. Presents mathematical models and novel structure of battery equalizers in battery management systems BMS. Reviews the state of the art of battery supercapacitor and battery supercapacitor hybrid energy storage systems HESSs for

advanced electric vehicle applications Advances in Battery Manufacturing Services and Management Systems is written for researchers and engineers working on battery manufacturing service operations logistics and management It can also serve as a reference for senior undergraduate and graduate students interested in BM2S2

**Strategic System Assurance and Business Analytics** P. K. Kapur, Ompal Singh, Sunil Kumar Khatri, Ajit Kumar Verma, 2020-06-19 This book systematically examines and quantifies industrial problems by assessing the complexity and safety of large systems It includes chapters on system performance management software reliability assessment testing quality management analysis using soft computing techniques management analytics and business analytics with a clear focus on exploring real world business issues Through contributions from researchers working in the area of performance management and business analytics it explores the development of new methods and approaches to improve business by gaining knowledge from bulk data With system performance analytics companies are now able to drive performance and provide actionable insights for each level and for every role using key indicators generate mobile enabled scorecards time series based analysis using charts and dashboards In the current dynamic environment a viable tool known as multi criteria decision analysis MCDA is increasingly being adopted to deal with complex business decisions MCDA is an important decision support tool for analyzing goals and providing optimal solutions and alternatives It comprises several distinct techniques which are implemented by specialized decision making packages This book addresses a number of important MCDA methods such as DEMATEL TOPSIS AHP MAUT and Intuitionistic Fuzzy MCDM which make it possible to derive maximum utility in the area of analytics As such it is a valuable resource for researchers and academicians as well as practitioners and business experts

**Numerical Methods in Finance and Economics** Paolo Brandimarte, 2013-06-06 A state of the art introduction to the powerful mathematical and statistical tools used in the field of finance The use of mathematical models and numerical techniques is a practice employed by a growing number of applied mathematicians working on applications in finance Reflecting this development Numerical Methods in Finance and Economics A MATLAB Based Introduction Second Edition bridges the gap between financial theory and computational practice while showing readers how to utilize MATLAB the powerful numerical computing environment for financial applications The author provides an essential foundation in finance and numerical analysis in addition to background material for students from both engineering and economics perspectives A wide range of topics is covered including standard numerical analysis methods Monte Carlo methods to simulate systems affected by significant uncertainty and optimization methods to find an optimal set of decisions Among this book s most outstanding features is the integration of MATLAB which helps students and practitioners solve relevant problems in finance such as portfolio management and derivatives pricing This tutorial is useful in connecting theory with practice in the application of classical numerical methods and advanced methods while illustrating underlying algorithmic concepts in concrete terms Newly featured in the Second Edition In depth treatment of Monte Carlo methods with due attention paid to variance reduction strategies New appendix on

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Optimal Financial Decision Making under Uncertainty Giorgio Consigli, Daniel Kuhn, Paolo Brandimarte, 2016-10-17 The scope of this volume is primarily to analyze from different methodological perspectives similar valuation and optimization problems arising in financial applications aimed at facilitating a theoretical and computational integration between methods largely regarded as alternatives Increasingly in recent years financial management problems such as strategic asset allocation asset liability management as well as asset pricing problems have been presented in the literature adopting formulation and solution approaches rooted in stochastic programming robust optimization stochastic dynamic programming including approximate SDP methods as well as policy rule optimization heuristic approaches and others The aim of the volume is to facilitate the comprehension of the modeling and methodological potentials of those methods thus their common assumptions and peculiarities relying on similar financial problems The volume will address different valuation problems common in finance related to asset pricing optimal portfolio management risk measurement risk control and asset liability management The volume features chapters of theoretical and practical relevance clarifying recent advances in the associated applied field from different standpoints relying on similar valuation problems and as mentioned facilitating a mutual and beneficial methodological and theoretical knowledge transfer The distinctive aspects of the volume can be summarized as follows Strong benchmarking philosophy with contributors explicitly asked to underline current limits and desirable developments in their areas Theoretical contributions aimed at advancing the state of the art in the given domain with a clear potential for applications The inclusion of an algorithmic computational discussion of issues arising on similar valuation problems across different methods Variety of applications rarely is it possible within a single volume to consider and analyze different and possibly competing alternative optimization techniques applied to well identified financial valuation problems Clear definition of the current state of the art in each methodological and applied area to facilitate future research directions

**Fixed Income Investing** Thomas Poufinas, 2022-03-28 Fixed income investments have been a topic of broad interest in particular for institutional investors such as insurance companies and pensions schemes They were considered safe heavens in turbulent times by almost all other institutional and individual investors and are used for strategies such as portfolio immunization and asset liability matching

ALM The latest crisis however revealed some of the weaknesses of fixed income instruments They proved to be not as safe as originally thought with both credit and interest rate risks emerging Consequently fixed income investments have been in the spotlight once more This book presents all aspects pertaining to fixed income investments starting from the basics i e the types of bonds their valuation the interest rate term structure then moving to fixed income portfolio management and the interest rate and credit derivatives and their relevant markets funds risks and risk management Finally the book addresses contemporary issues such as their behavior in times of crisis their relation to debt their coexistence with equity and the current regulatory environment This book providing a look at the broader environment of fixed income alongside the current market structure will be of interest to students academics researchers and practitioners in fixed income and investing strategies

*Handbook of Energy Economics and Policy* Alessandro Rubino,Alessandro Sapio,Massimo La Scala,2021-05-10 Handbook of Energy Economics and Policy Fundamentals and Applications for Engineers and Energy Planners presents energy engineers and managers with analytical skills and concepts that enable them to apply simple economic logic to understand the interrelations between energy technologies economics regulation and governance of the industry Sections cover the origins types and measurement of energy sources transportation networks and regulatory and policy issues on electricity and gas at a global level new economic and policy issues including innovation processes in the energy industry and economic and policy implications Final sections cover state of the art methods for modeling and predicting the dynamics of energy systems Its unique approach and learning path makes this book an ideal resource for energy engineering practitioners and researchers working to design develop plan or deploy energy systems Energy planners and policymakers will also find this to be a solid foundation on which to base decisions Presents key concepts and their interrelation with energy technologies and systems in a clear way for ready application during planning and deployment of energy technologies and systems Includes global case studies covering a wide array of energy sources and regulatory models Explores methodologies for modeling and forecasting the impacts of energy technologies and systems as well as their costs and possible business models

*High-Performance Computing in Finance* M. A. H. Dempster,Juho Kanninen,John Keane,Erik Vynckier,2018-02-21 High Performance Computing HPC delivers higher computational performance to solve problems in science engineering and finance There are various HPC resources available for different needs ranging from cloud computing that can be used without much expertise and expense to more tailored hardware such as Field Programmable Gate Arrays FPGAs or D Wave s quantum computer systems High Performance Computing in Finance is the first book that provides a state of the art introduction to HPC for finance capturing both academically and practically relevant problems

*An Introduction to Mathematical Finance with Applications* Arlie O. Petters,Xiaoying Dong,2016-06-17 This textbook aims to fill the gap between those that offer a theoretical treatment without many applications and those that present and apply formulas without appropriately deriving them The balance achieved will give readers a fundamental understanding of key

financial ideas and tools that form the basis for building realistic models including those that may become proprietary. Numerous carefully chosen examples and exercises reinforce the student's conceptual understanding and facility with applications. The exercises are divided into conceptual, application-based, and theoretical problems which probe the material deeper. The book is aimed toward advanced undergraduates and first-year graduate students who are new to finance or want a more rigorous treatment of the mathematical models used within. While no background in finance is assumed, prerequisite math courses include multivariable calculus, probability, and linear algebra. The authors introduce additional mathematical tools as needed. The entire textbook is appropriate for a single-year-long course on introductory mathematical finance. The self-contained design of the text allows for instructor flexibility in topics, courses, and those focusing on financial derivatives. Moreover, the text is useful for mathematicians, physicists, and engineers who want to learn finance via an approach that builds their financial intuition and is explicit about model building, as well as business school students who want a treatment of finance that is deeper but not overly theoretical.

*Machine Learning Approaches in Financial Analytics* Leandros A. Maglaras, Sonali Das, Naliniprava Tripathy, Srikanta Patnaik, 2024-08-27. This book addresses the growing need for a comprehensive guide to the application of machine learning in financial analytics. It offers a valuable resource for both beginners and experienced professionals in finance and data science by covering the theoretical foundations, practical implementations, ethical considerations, and future trends in the field. It bridges the gap between theory and practice, providing readers with the tools and knowledge they need to leverage the power of machine learning in the financial sector responsibly.

**Optimization and Control for Systems in the Big-Data Era** Tsan-Ming Choi, Jianjun Gao, James H. Lambert, Chi-Kong Ng, Jun Wang, 2017-05-04. This book focuses on optimal control and systems engineering in the big data era. It examines the scientific innovations in optimization, control, and resilience management that can be applied to further success. In both business operations and engineering applications, there are huge amounts of data that can overwhelm computing resources of large-scale systems. This big data provides new opportunities to improve decision making and addresses risk for individuals as well as in organizations. While utilizing data smartly can enhance decision making, how to use and incorporate data into the decision-making framework remains a challenging topic. Ultimately, the chapters in this book present new models and frameworks to help overcome this obstacle.

**Optimization and Control for Systems in the Big Data Era: Theory and Applications** is divided into five parts. Part I offers reviews on optimization and control theories, and Part II examines the optimization and control applications. Part III provides novel insights and new findings in the area of financial optimization analysis. The chapters in Part IV deal with operations analysis covering flow shop operations and quick response systems. The book concludes with final remarks and a look to the future of big data-related optimization and control problems.

**Decision Making with Insight** Sam L. Savage, 2003. Dr. Sam Savage, who is recognized as a leading innovator in management science education, provides the most hands-on practical introduction to methods of decision making. This book

and accompanying suite of Excel add ins for quantitative analysis covers Monte Carlo simulation decision trees queuing simulations optimization Markov chains and forecasting The Insight add ins have been developed over several years by the author     **CME** ,1979     **Chartered Mechanical Engineer** ,1979     *International Edition - Investment Science B* David Luenberger,2023-05-10

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