

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 3 Problem 8

**Sam L. Savage**



### **Luenberger Investment Science Chapter 3 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.

*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 AMPL in order to better illustrate the optimization models in Chapters 11 and 12; New chapter on binomial and trinomial lattices; Additional treatment of partial differential equations with two space dimensions; Expanded treatment within the chapter on financial theory to provide a more thorough background for engineers not familiar with finance; New coverage of advanced

optimization methods and applications later in the text Numerical Methods in Finance and Economics A MATLAB Based Introduction Second Edition presents basic treatments and more specialized literature and it also uses algebraic languages such as AMPL to connect the pencil and paper statement of an optimization model with its solution by a software library Offering computational practice in both financial engineering and economics fields this book equips practitioners with the necessary techniques to measure and manage risk

**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

**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     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     *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     *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

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