

Chapter 3 Fixed-Income Securities

1. Zero-coupon bond

$$P = \frac{FV}{1 + \frac{r}{n}} = \frac{1000}{1 + \frac{0.05}{2}} = 952.38$$

2. Bond with coupon income but it is not a zero-coupon bond

$$P = \frac{C}{1 + \frac{r}{n}} + \frac{FV}{1 + \frac{r}{n}}$$

where

$$C = \frac{FV \cdot r}{n}$$

and

$$P = \frac{C}{1 + \frac{r}{n}} + \frac{FV}{1 + \frac{r}{n}}$$

3. Bond with coupon

Let us find the price of a zero-coupon bond with a face value of 1000 and a coupon rate of 5%.

$$P = \frac{C}{1 + \frac{r}{n}} + \frac{FV}{1 + \frac{r}{n}} = \frac{25}{1 + \frac{0.05}{2}} + \frac{1000}{1 + \frac{0.05}{2}} = 975.00$$

Let us find the present value of a bond with a face value of 1000 and a coupon rate of 5%.

$$P = \frac{C}{1 + \frac{r}{n}} + \frac{FV}{1 + \frac{r}{n}}$$

where $C = \frac{FV \cdot r}{n}$ and $FV = 1000$ and $r = 0.05$ and $n = 2$ (semi-annual compounding).

Let us find the present value of a bond with a face value of 1000 and a coupon rate of 5%.

$$P = \frac{C}{1 + \frac{r}{n}} + \frac{FV}{1 + \frac{r}{n}} = \frac{25}{1 + \frac{0.05}{2}} + \frac{1000}{1 + \frac{0.05}{2}} = 975.00$$

Let us find the present value of a bond with a face value of 1000 and a coupon rate of 5%.

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VM Jensen



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H-infinity Control and Estimation of State-multiplicative Linear Systems Eli Gershon, Uri Shaked, Isaac Yaesh, 2005-06-24 Multiplicative noise appears in systems where the process or measurement noise levels depend on the system state vector. Such systems are relevant for example in radar measurements where larger ranges involve higher noise level. This monograph embodies a comprehensive survey of the relevant literature with basic problems being formulated and solved by applying various techniques including game theory, linear matrix inequalities and Lyapunov parameter dependent functions. Topics covered include convex H_2 and H_∞ norms analysis of systems with multiplicative noise, state feedback control and state estimation of systems with multiplicative noise, dynamic and static output feedback of stochastic bilinear systems, tracking controllers for stochastic bilinear systems utilizing preview information. Various examples which demonstrate the applicability of the theory to practical control engineering problems are considered; two such examples are taken from the aerospace and guidance control areas. **On-line Estimation and Adaptive Control of Bioreactors** G. Bastin, 2013-10-22 This book deals with monitoring and control of biotechnological processes. Different methods are proposed which are based on the nonlinear structure of the process and do not require any a priori knowledge of the fermentation parameters. The theoretical stability and convergence properties of the proposed algorithms are analysed and their performances are illustrated by simulation results and in many instances by real life experiments. The concept of software sensors is introduced; these are algorithms based on the nonlinear model of the process and designed for on line estimation of the biological variables and/or the fermentation parameters. In order to deal with process nonstationarities and parameter uncertainties, reference is made to adaptive estimation and control techniques. The book is the result of an intensive joint research effort by the authors during the last decade. It is intended as a graduate level text for students of bioengineering as well as a reference text for scientists and engineers involved in the design and optimization of bioprocesses. **Linear and Nonlinear Programming** David G. Luenberger, 2003-09-30 The original edition of this book was celebrated for its coverage of the central concepts of practical optimization techniques. This updated edition expands and illuminates the connection between the purely analytical character of an optimization problem expressed by properties of the necessary conditions and the behavior of algorithms used to solve a problem. Incorporating modern theoretical insights, this classic text is even more useful. **An Invitation to Statistics in Wasserstein Space** Victor M. Panaretos, Yoav Zemel, 2020-03-10 This open access book presents the key aspects of statistics in Wasserstein spaces, i.e. statistics in the space of probability measures when endowed with the geometry of optimal transportation. Further to reviewing state of the art aspects, it also provides an accessible introduction to the fundamentals of this current topic as well as an overview that will serve as an invitation and catalyst for further research. Statistics in Wasserstein spaces represents an emerging topic in mathematical statistics situated at the interface between functional data analysis where the data are functions thus lying in infinite dimensional Hilbert space.

and non Euclidean statistics where the data satisfy nonlinear constraints thus lying on non Euclidean manifolds The Wasserstein space provides the natural mathematical formalism to describe data collections that are best modeled as random measures on Euclidean space e g images and point processes Such random measures carry the infinite dimensional traits of functional data but are intrinsically nonlinear due to positivity and integrability restrictions Indeed their dominating statistical variation arises through random deformations of an underlying template a theme that is pursued in depth in this monograph

Local Stability and Ultimate Boundedness in the Control of Robot Manipulators Marco A. Arteaga, Alejandro Gutiérrez-Giles, Javier Pliego-Jiménez, 2021-11-08 This book offers a unique compendium of the authors own research on the use of theoretical stability analysis showing how to take advantage of local stability design and ultimate boundedness for practical robot control It addresses researchers and postgraduate students dealing with control theory particularly with nonlinear systems Thanks to the numerous worked examples it could also be used as a textbook in postgraduate courses

Optimal Portfolios Ralf Korn, 1997 The focus of the book is the construction of optimal investment strategies in a security market model where the prices follow diffusion processes It begins by presenting the complete Black Scholes type model and then moves on to incomplete models and models including constraints and transaction costs The models and methods presented will include the stochastic control method of Merton the martingale method of Cox Huang and Karatzas et al the log optimal method of Cover and Jamshidian the value preserving model of Hellwig etc Stress is laid on rigorous mathematical presentation and clear economic interpretations while technicalities are kept to the minimum The underlying mathematical concepts will be provided No a priori knowledge of stochastic calculus stochastic control or partial differential equations is necessary however some knowledge in stochastics and calculus is needed

Nonlinear Functional Analysis and its Applications E. Zeidler, 2013-12-11 As long as a branch of knowledge offers an abundance of problems it is full of vitality David Hilbert Over the last 15 years I have given lectures on a variety of problems in nonlinear functional analysis and its applications In doing this I have recommended to my students a number of excellent monographs devoted to specialized topics but there was no complete survey type exposition of nonlinear functional analysis making available a quick survey to the wide range of readers including mathematicians natural scientists and engineers who have only an elementary knowledge of linear functional analysis I have tried to close this gap with my five part lecture notes the first three parts of which have been published in the Teubner Texte series by Teubner Verlag Leipzig 1976 1977 and 1978 The present English edition was translated from a completely rewritten manuscript which is significantly longer than the original version in the Teubner Texte series The material is organized in the following way Part I Fixed Point Theorems Part II Monotone Operators Part III Variational Methods and Optimization Parts IV jV Applications to Mathematical Physics The exposition is guided by the following considerations a What are the supporting basic ideas and what intrinsic interrelations exist between them 3 In what relation do the basic ideas stand to the known propositions of classical analysis and linear functional analysis y What

typical applications are there VII Preface viii Special emphasis is placed on motivation Formulating Principal-Agent Service Contracts for a Revenue Generating Unit Shuo Zeng, Moshe Dror, 2015-07-02 This book examines contractual options for a performance based contract between an owner of a revenue generating unit and a repair agent for such unit The framework of the analysis is that of economists principal agent problem The contractual options of a principal and an agent are modeled as a Markov process with an undetermined time horizon For a risk neutral principal the authors identify the conditions under which a principal contracts with a risk neutral risk averse or risk seeking agent and derive the principal s optimal offer together with the agent s optimal service capacity response In essence the book provides an extensive formulating analysis of principal agent contracts given any exogenous parameter values Ultimately a small number of formulas cover a large spectrum of principal agent conditions *Flexible Robot Dynamics and Controls* Rush D. Robinett III, John Feddema, G. Richard Eisler, Clark Dohrmann, Gordon G. Parker, David G. Wilson, Dennis Stokes, 2012-12-06 This book is the result of over ten 10 years of research and development in flexible robots and structures at Sandia National Laboratories The authors decided to collect this wealth of knowledge into a set of viewgraphs in order to teach a graduate class in Flexible Robot Dynamics and Controls within the Mechanical Engineering Department at the University of New Mexico UNM These viewgraphs encouragement from several students and many late nights have produced a book that should provide an upper level undergraduate and graduate textbook and a reference for experienced professionals The content of this book spans several disciplines including structural dynamics system identification optimization and linear digital and nonlinear control theory which are developed from several points of view including electrical mechanical and aerospace engineering as well as engineering mechanics As a result the authors believe that this book demonstrates the value of solid applied theory when developing hardware solutions to real world problems The reader will find many real world applications in this book and will be shown the applicability of these techniques beyond flexible structures which in turn shows the value of multidisciplinary education and teaming The Ocean Circulation Inverse Problem Carl Wunsch, 1996-06-13 This book addresses the problem of inferring the state of the ocean circulation from a mathematical perspective

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