Lecture Notes in Control and Information Sciences

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R. P. Leland

Stochastic Models for Laser Propagation in Atmospheric Turbulence

Stochastic Models For Laser Propagation In Atmospheric Turbulence

Kevin Warwick

Stochastic Models For Laser Propagation In Atmospheric Turbulence:

Stochastic Models for Laser Propagation in Atmospheric Turbulence Robert P. Leland,2014-03-12 This monograph considers stochastic models for laser propagation in atmospheric turbulence in a Hilbert space context The laser beam intensity is formulated as the solution to a random Schroedinger equation This model is considered as an abstract bilinear system with a multiplicative white noise input This monograph applied the Hilbert space valued white noise theory to the laser distortion problem and relates it to the Wiener process formulation This monograph will be of interest to researchers working in stochastic differential equations as well as engineers and physicists working in atmoshperic optics The monograph is intended for readers who have taken a graduate course in functional analysis and probability **Stochastic Models for Laser Propagation in Atmospheric Turbulence** Robert Patton Leland,1989 **System Modelling and Optimization** Hans-Jürgen Sebastian,K. Tammer,1990 The aim of the present proceedings volume is to discuss recent advances in the mathematical representation of engineering socio technical and socio economical systems as well as in the optimization of their performance The papers presented are extended versions of about 100 lectures plenary lectures as well as lectures of the parallel sessions of the conference All papers include original researching results of the authors Some have the character of a survey Scientific and Technical Aerospace Reports ,1995 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database *Lecture Notes in Pure and Applied Mathematics* ,1991 *Soviet Science and Technology* ,1987 **Advanced Methods in Adaptive Control for Industrial Applications** Kevin Warwick,1991-05-27 Selected and collected papers which resulted from a joint Czechoslovak UK Seminar on an event held in Praha 14 16 May 1990 Pref Soviet Science and Technology 1987 ,1988 **High-resolution Methods in Underwater Acoustics** Michel Bouvet,1991 *System Modelling and Optimization* Peter Kall,1992 **Numerical Operations with Polynomial Matrices** Peter Stefanidis,Andrzej P. Paplinski,Michael J. Gibbard,1992 The purpose of this monograph is to describe a class of com putational methods based on polynomial matrices for the design of dynamic compensators for linear multi variable control systems The design of the compensator which may be either analogue or digital is based on pole assignment A matrix fraction description which employs polynomial matri ces is used to represent the system The design comptuta tion however employs matrices of real numbers rather than polynomial matrices This simplifies the computational pro cedures which can thus be implementedin commercially avai lable software packages Both transient and steady state performace specifications are included in the design proce dure which is illustrated by four detailed examples The monograph should be of interest to research workers and engineers in the field fo multi variable control For the former it provides some new computational tools for the ap plication of algebraic methods for both groups it introdu ces some new ideas for a more direct approach to compensator design **The Cumulative Book Index** ,1990 A world list of books in the

English language   *Differential and Algebraic Riccati Equations with Application to Boundary/point Control Problems* Irena Lasiecka,Roberto Triggiani,1991 This book provides in a unified framework an updated and rather comprehensive treatment contered on the theory of ot pimal control with quadratic cost functional for abstract linear systems with application to boundary point control problems for partial differential equations distributed pa rameter systems The book culminates with the analysisof differential and algebraic Riccati equations which arise in the pointwisefe edback synthesis of the optimal pair It incorporates the critical topics of optimal irregularity of solutions to mi xed problems for partial differential equations exact con trollability and uniform feedback stabilization It covers the main results of the theory which has reached a consi derable degree of maturity over the last few years as well asthe authors basic philosophy behind it Moreover it provides numerous illustrative examples of boundary point control problems for partial differential equations where the abstract theory applies However in line with the purpose of the manuscript many technical pro ofs are referred to in the literature Thus the manuscript should prove useful not only to mathematicians and theoreti cal scientists with expertise in partial differential equa tions operator theory numerical analysis control theory etc but also to those who simple wish to orient themselves with the scope and status of the theory presently available Both continuous theory and numerical approximation theory thereof are included   On Moment Theory and Controllability of One-dimensional Vibrating Systems and Heating Processes Werner Krabs,1992 The main concern of this book is the application of infinite moment theory to the problem of controllability of one di mensional vibrating systems like strings and beams and heating processes Distributed as well as boundary control is considered In the case of vibrating systems trigonometric moment pro blems are to be investigated which is done on the basis of an abstract moment theory in Hilbert spaces Equivalently alsothe theory of linear operator equations on Hilbert spa ces partly with unbounded operators is applied to the problem of controllability and time minimal controllability In the case of heating processes exponential moment problems are to be dealt with which is done on the basis of an ab stract moment theory in Banach spaces Time minimal control lability is also treated with the aid of the theory of line aroperator equations on Banach spaces Some advanced knowledge in functional analyis and on partial differential equations is preassumed for a fluent reader of the book but parts of it are also readable with basic ma thematical knowledge for instance the finite dimensional part of the introduction   **Proceedings** ,1993   The Autonomous Linear Quadratic Control Problem Volker Ludwig Mehrmann,1991 A survey is given on the state of the art in theory and numerical solution of general autonomous linear quadratic optimal control problems continuous and discrete with differential algebraic equation constraints It incorporates the newest developments on differential algebraic equations Riccati equations and invariant subspace problems In particular it gives a decision chart of numerical methods that can be used to determine the right numerical method according to special properties of the problem The book closes a gap between mathematical theory numerical solution and engineering application The mathematical tools are kept as basic as possible in order to address the

different groups of readers mathematicians and engineers   *Coherent Optical Wireless Communication Principle and Application* Xizheng Ke,Jiali Wu,2022-11-30 This book presents the key technologies of coherent optical wireless communication covers topics such as beam coupling signal optical polarization control and distorted wavefront correction It discusses the principle of coherent optical communication and heterodyne detection conditions In this book the array coupling receiving technology and large aperture coupling technology are introduced to realize the spatial optical fiber coupling simulated annealing algorithm particle swarm optimization algorithm and SPO algorithm are used to control the polarization state of the signal beam and the correction of distorted wavefront of the signal beam by adaptive optics technology and wavefront sensorless adaptive optics technology are analyzed and the influence of beam mode on coherent detection performance is elaborated Both theoretical deduction and experimental results are included in this book which can help readers further understand the theoretical knowledge   IEEE Proceedings of the Southeastcon ,1992   **Robust Control for Unstructured Perturbations — An Introduction** Peter Dorato,Luigi Fortuna,G. Muscato,1992 These lecture notes focus on the synthesis of robust con trollers for feedback systems in the presence of unstruc tured perturbations It is assumed as a prerequisites that the reader is familiar with the basic linear system and au tomatic control concepts In part I interpolation theory is used to solve various single input single output SISO ro bust control problems While the interpolation approach is awkward for multivariable systems it provides a very natu ral and simple approach for SISO systems In particular the interpolation approach requires only elementary knowledge of complex variables and provides a great deal of physical insight into various robust control problems The required interpolation theory is developed in some detail Part II is devoted to multivariable systems Two approaches are out lined the Hankle norm approach and the two Riccati equa tion approach In this part only a limited number of results are proven However MATLAB software is presented for nu merical solution The book is addressed to researchers practicing engineers and students who wish to get an intro duction to robust control theory for unstructured plant perturbations The organization of the book as lecture notes and the presence of examples and of exercises at the end of many chapters allow to use the book as an introductory text in Robust Control courses   Partially Coherent Optical Transmission Theory in Optical Wireless Communication Xizheng Ke,2024-10-30 This book introduces the theory and research methods of partially coherent optical points out the significance of this study analyzes the basic theories involved in partially coherent light and explains the complete coherence of laser is not a necessary condition for good directivity and partially spatially coherent optical sources can also produce the same far field intensity distribution as lasers This type of beam with good directivity but only partial spatial coherence is called a Gaussian Schell model beam which can be used as a physical model to describe multimode lasers under certain conditions This book is applicable to the large number of engineers and technicians involved in wireless optical communication and college teachers It can also be used as a teaching material for graduate students and senior undergraduates in related fields

Reviewing **Stochastic Models For Laser Propagation In Atmospheric Turbulence**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Stochastic Models For Laser Propagation In Atmospheric Turbulence**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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