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R. P. Leland

**Stochastic Models
for Laser Propagation
in Atmospheric Turbulence**



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Stochastic Models For Laser Propagation In Atmospheric Turbulence

H Kauffman



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 atmospheric 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 *Soviet Science and Technology* 1987, 1988 Lecture Notes in Pure and Applied Mathematics, 1991 Soviet Science and Technology, 1987

High-resolution Methods in Underwater Acoustics Michel Bouvet, 1991 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 centered on the theory of optimal control with quadratic cost functional for abstract linear systems with application to boundary point control problems for partial differential equations distributed parameter systems The book culminates with the analysis of differential and algebraic Riccati equations which arise in the pointwise feedback synthesis of the optimal pair It incorporates the critical topics of optimal irregularity of solutions to mixed problems for partial differential equations exact controllability and uniform feedback stabilization It covers the main results of the theory which has reached a considerable degree of maturity over the last few years as well as the 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 proofs are referred to in the literature Thus the manuscript should prove useful not only to mathematicians and theoretical scientists with expertise in partial differential equations operator theory numerical analysis control theory etc but also to those who simply wish to orient themselves with the scope and status of the theory presently available Both continuous theory and numerical approximation theory thereof are included

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