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Recursive Estimation and Control for Stochastic Systems Han-Fu Chen This self-contained volume presents both the discrete-time and continuous-time systems, and incorporates not only well-known results in these fields but also many of the latest research findings. It shows how to analyze the convergence of recursive estimates through a combination of the probabilistic and ordinary differential equation methods and establishes the connection between the Gauss-Markov estimate and the Kalman filter through

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stochastic observability, and more. 1985 (0 471-81566-7) 378 pp. Nonparametric Density Estimation The L1 View Luc Devroye and Laszlo Gyorfı The first systematic, single-source examination that develops from first principles the "natural" theory for density estimation and shows why the classical L2 theory masks some fundamental properties of density estimates. Linking different subareas of statistics, including simulation, pattern recognition, detection theory, and minimax theory, it shows how to construct, use, and analyze density estimates. Relevant recent literature is tied in with the classical works of Parzen, Rosenblatt, and others. 1985 (0 471-81646-9) 368 pp. Elements of Applied Stochastic Processes Second

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Edition U. Narayan Bhat An applied introduction to stochastic models, this expanded and revised account develops basic concepts and techniques and applies them to problems arising in queueing, reliability, inventory and computer communications, social and behavioral processes, business management, and time series analysis. 1984 (0 471-87826-X) 736 pp.

Mathematical Aspects of Physiology

Multivariable Mathematics with Maple

Designed to help life sciences students understand the role mathematics has played in breakthroughs in epidemiology, genetics, statistics, physiology, and other biological areas, MODELING THE DYNAMICS OF

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LIFE: CALCULUS AND PROBABILITY FOR LIFE

SCIENTISTS, Third Edition, provides students with a thorough grounding in mathematics, the language, and 'the technology of thought' with which these developments are created and controlled. The text teaches the skills of describing a system, translating appropriate aspects into equations, and interpreting the results in terms of the original problem. The text helps unify biology by identifying dynamical principles that underlie a great diversity of biological processes.

Standard topics from calculus courses are covered, with particular emphasis on those areas connected with

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modeling such as discrete-time dynamical systems, differential equations, and probability and statistics. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Radar and Sonar

Nonlinear Oscillations in Biology

This title contains lectures that offer an introduction to modern topics in stochastic partial differential equations and bring together experts whose research is centered on the interface between Gaussian analysis, stochastic analysis, and stochastic PDEs.

Markov Processes

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Matrix Analysis

Matrix Analysis Cambridge University Press

Characterization and Convergence

An Introduction to the Mathematics of

Neurons

This volume contains papers from three sets of tutorial covering mathematics "Topics in Harmonic Analysis with Applications to Radar and Sonar", physical aspects of scattering "Sonar and Radar Echo Structure", and engineering modelling and processing of the phenomena under consideration "Theory of

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Remote Surveillance Algorithms". In addition, the famous technical report by Calvin H. Wilcox "The Synthesis Problems for Radar Ambiguity Functions" is published here for the first time.

The Millennium Prize Problems

Matrix Analysis presents the classical and recent results for matrix analysis that have proved to be important to applied mathematics.

***A Minicourse on Stochastic Partial Differential Equations
Part I***

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"On May 24, 2000, at a meeting at the Collège de France, the Clay Mathematics Institute announced the creation of a US\$7 million prize fund for the solution of seven important classic problems that have resisted solution. The prize fund is divided equally among the seven problems. There is no time limit for their solution. The Millennium Prize problems gives the official description of each of the seven problems and the rules governing the prizes"--Information screen.

Linear Algebra, Vector Calculus and Differential Equations
Modeling the Dynamics of Life: Calculus and Probability for Life Scientists

Neurons, or nerve cells, are basic timers in our bodies; they also play a central role in

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storing and processing information in our brains. This book introduces neuron physiology and some mathematical methods that can help us to understand how neurons work. The author's aim is to uncover frequency-response properties of neurons and to show that neural networks can support stable patterns of synchronized firing. He does this using a novel electrical circuit model of a neuron, called VCON, which shares many features with the Hodgkin-Huxley model, though it is much simpler to

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study. This makes the book suitable for advanced undergraduate or new graduate students studying mathematical biology. Indeed the book grew from such a course taught at the University of Utah. The only prerequisites are basic calculus, differential equations and matrix algebra. Problems (some with solutions) are provided at the end of each chapter; they range from simple illustrative exercises to more challenging extensions of the text. Some projects, often involving microcomputers, are also

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suggested.