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Surveys and Tutorials in the Applied Mathematical Sciences

Stochastic Tools in Mathematics and Science

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 **Springer**

Stochastic Tools In Mathematics And Science

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Stochastic Tools In Mathematics And Science:

Stochastic Tools in Mathematics and Science Alexandre Joel Chorin, Ole H. Hald, 2013-05-31 Stochastic Tools in Mathematics and Science Alexandre J. Chorin, Ole H Hald, 2014-01-21 Stochastic Tools in Mathematics and Science covers basic stochastic tools used in physics chemistry engineering and the life sciences The topics covered include conditional expectations stochastic processes Brownian motion and its relation to partial differential equations Langevin equations the Liouville and Fokker Planck equations as well as Markov chain Monte Carlo algorithms renormalization basic statistical mechanics and generalized Langevin equations and the Mori Zwanzig formalism The applications include sampling algorithms data assimilation prediction from partial data spectral analysis and turbulence The book is based on lecture notes from a class that has attracted graduate and advanced undergraduate students from mathematics and from many other science departments at the University of California Berkeley Each chapter is followed by exercises The book will be useful for scientists and engineers working in a wide range of fields and applications For this new edition the material has been thoroughly reorganized and updated and new sections on scaling sampling filtering and data assimilation based on recent research have been added There are additional figures and exercises Review of earlier edition This is an excellent concise textbook which can be used for self study by graduate and advanced undergraduate students and as a recommended textbook for an introductory course on probabilistic tools in science Mathematical Reviews 2006 *Stochastic Tools in Mathematics and Science* Alexandre J Chorin, Ole H Hald, 2010-11-16 This introduction to probability based modeling covers basic stochastic tools used in physics chemistry engineering and the life sciences Topics covered include conditional expectations stochastic processes Langevin equations and Markov chain Monte Carlo algorithms The applications include data assimilation prediction from partial data spectral analysis and turbulence A special feature is the systematic analysis of memory effects **Wavelet Structure and Design** Daniel J. Greenhoe, 2013-08-21 This book presents the structure of wavelets principles of wavelet design and mathematical structure that supports wavelet theory **Stochastic Tools in Turbulence** John L. Lumley, 2007-01-01 This accessible treatment offers the mathematical tools for describing and solving problems related to stochastic vector fields Advanced undergraduates and graduate students will find its use of generalized functions a relatively simple method of resolving mathematical questions It will prove a valuable reference for applied mathematicians and professionals in the fields of aerospace chemical civil and nuclear engineering The author Professor Emeritus of Engineering at Cornell University starts with a survey of probability distributions and densities and proceeds to examinations of moments characteristic functions and the Gaussian distribution random functions and random processes in more dimensions Extensive appendixes which include information on Fourier transforms tensors generalized functions and invariant theory contribute toward making this volume mathematically self contained *Digital And The Real World, The: Computational Foundations Of Mathematics, Science, Technology, And Philosophy* Klaus Mainzer, 2017-11-17 In the 21st

century digitalization is a global challenge of mankind Even for the public it is obvious that our world is increasingly dominated by powerful algorithms and big data But how computable is our world Some people believe that successful problem solving in science technology and economies only depends on fast algorithms and data mining Chances and risks are often not understood because the foundations of algorithms and information systems are not studied rigorously Actually they are deeply rooted in logics mathematics computer science and philosophy Therefore this book studies the foundations of mathematics computer science and philosophy in order to guarantee security and reliability of the knowledge by constructive proofs proof mining and program extraction We start with the basics of computability theory proof theory and information theory In a second step we introduce new concepts of information and computing systems in order to overcome the gap between the digital world of logical programming and the analog world of real computing in mathematics and science The book also considers consequences for digital and analog physics computational neuroscience financial mathematics and the Internet of Things IoT

na Alexandre Joel Chorin, Ole H. Hald, 2011-03-18 **Mathematics in Science and Engineering**, 1965 *Mathematical Reviews*, 2006 **A Guide to the Literature of Mathematics Today** Joong Fang, 1972 **The British National Bibliography** Arthur James Wells, 2009 Subject Guide to Books in Print, 1993 **Classed Subject Catalog** Engineering Societies Library, 1970 **International Journal of Applied Mathematics and Computer Science**, 1999 Recent Works in the California State Library in Science and Technology California State Library, 1972

Scientific and Technical Books and Serials in Print, 1989 **Gazette des mathématiciens**, 2005 **Discrete Stochastic Processes** Nicolas Privault, 2024-10-10 This text presents selected applications of discrete time stochastic processes that involve random interactions and algorithms and revolve around the Markov property It covers recurrence properties of excited random walks convergence and mixing of Markov chains distribution modeling using phase type distributions applications to search engines and probabilistic automata and an introduction to the Ising model used in statistical physics Applications to data science are also considered via hidden Markov models and Markov decision processes A total of 32 exercises and 17 longer problems are provided with detailed solutions and cover various topics of interest including statistical learning

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