

Sidney I. Resnick

A Probability Path

A Probability Path Modern Birkhauser Classics

Tatiana A. Bubba



A Probability Path Modern Birkhauser Classics:

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Data-driven Models in Inverse Problems Tatiana A. Bubba, 2024-11-18 Advances in learning based methods are revolutionizing several fields in applied mathematics including inverse problems resulting in a major paradigm shift towards

data driven approaches This volume which is inspired by this cutting edge area of research brings together contributors from the inverse problem community and shows how to successfully combine model and data driven approaches to gain insight into practical and theoretical issues Concentration of Maxima and Fundamental Limits in High-Dimensional Testing and Inference Zheng Gao,Stilian Stoev,2021-09-07 This book provides a unified exposition of some fundamental theoretical problems in high dimensional statistics It specifically considers the canonical problems of detection and support estimation for sparse signals observed with noise Novel phase transition results are obtained for the signal support estimation problem under a variety of statistical risks Based on a surprising connection to a concentration of maxima probabilistic phenomenon the authors obtain a complete characterization of the exact support recovery problem for thresholding estimators under dependent errors **Representation Theory of Symmetric Groups** Pierre-Loic Meliot,2017-05-12 Representation Theory of Symmetric Groups is the most up to date abstract algebra book on the subject of symmetric groups and representation theory Utilizing new research and results this book can be studied from a combinatorial algorithmic or algebraic viewpoint This book is an excellent way of introducing today s students to representation theory of the symmetric groups namely classical theory From there the book explains how the theory can be extended to other related combinatorial algebras like the Iwahori Hecke algebra In a clear and concise manner the author presents the case that most calculations on symmetric group can be performed by utilizing appropriate algebras of functions Thus the book explains how some Hopf algebras symmetric functions and generalizations can be used to encode most of the combinatorial properties of the representations of symmetric groups Overall the book is an innovative introduction to representation theory of symmetric groups for graduate students and researchers seeking new ways of thought Journal of the American Statistical Association ,2002 Subject Guide to Books in Print ,2001 **Mathematical Reviews** ,2003 **Books in Series, 1876-1949** R.R. Bowker Company,1982 *Forthcoming Books* Rose Arny,2003 Whitaker's Books in Print ,1998 Choice ,2002 *Books in Print Supplement* ,2002 Books in Print ,1977 **Index of Mathematical Papers** ,1985 **International Books in Print** ,1986 **Medical and Health Care Books and Serials in Print** ,1997 The Self-Avoiding Walk Neal Madras,Gordon Slade,2012-11-07 The self avoiding walk is a mathematical model that has important applications in statistical mechanics and polymer science In spite of its simple definition a path on a lattice that does not visit the same site more than once it is difficult to analyze mathematically The Self Avoiding Walk provides the first unified account of the known rigorous results for the self avoiding walk with particular emphasis on its critical behavior Its goals are to give an account of the current mathematical understanding of the model to indicate some of the applications of the concept in physics and in chemistry and to give an introduction to some of the nonrigorous methods used in those fields Topics covered in the book include the lace expansion and its application to the self avoiding walk in more than four dimensions where most issues are now resolved an introduction to the nonrigorous scaling theory classical work of Hammersley and others a new

exposition of Kesten's pattern theorem and its consequences a discussion of the decay of the two point function and its relation to probabilistic renewal theory analysis of Monte Carlo methods that have been used to study the self avoiding walk the role of the self avoiding walk in physical and chemical applications Methods from combinatorics probability theory analysis and mathematical physics play important roles The book is highly accessible to both professionals and graduate students in mathematics physics and chemistry **German books in print** ,1980

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