

**Springer Series
in Statistics**

E. Seneta

**Non-negative
Matrices and
Markov Chains**

Second Edition



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Non-negative Matrices and Markov Chains E. Seneta, 1981-09-30 Since its inception by Perron and Frobenius the theory of non negative matrices has developed enormously and is now being used and extended in applied fields of study as diverse as probability theory numerical analysis demography mathematical economics and dynamic programming while its development is still proceeding rapidly as a branch of pure mathematics in its own right While there are books which cover this or that aspect of the theory it is nevertheless not uncommon for workers in one or another branch of its development to be unaware of what is known in other branches even though there is often formal overlap One of the purposes of this book is to relate several aspects of the theory insofar as this is possible The author hopes that the book will be useful to mathematicians but in particular to the workers in applied fields so the mathematics has been kept as simple as could be managed The mathematical requisites for reading it are some knowledge of real variable theory and matrix theory and a little knowledge of complex variable the emphasis is on real variable methods There is only one part of the book the second part of 55 5 which is of rather specialist interest and requires deeper knowledge Appendices provide brief expositions of those areas of mathematics needed which may be less generally known to the average reader

Markov Chains and Mixing Times David A. Levin, Yuval Peres, 2017-10-31 This book is an introduction to the modern theory of Markov chains whose goal is to determine the rate of convergence to the stationary distribution as a function of state space size and geometry This topic has important connections to combinatorics statistical physics and theoretical computer science Many of the techniques presented originate in these disciplines The central tools for estimating convergence times including coupling strong stationary times and spectral methods are developed The authors discuss many examples including card shuffling and the Ising model from statistical mechanics and

present the connection of random walks to electrical networks and apply it to estimate hitting and cover times The first edition has been used in courses in mathematics and computer science departments of numerous universities The second edition features three new chapters on monotone chains the exclusion process and stationary times and also includes smaller additions and corrections throughout Updated notes at the end of each chapter inform the reader of recent research developments

Large Deviations for Markov Chains Alejandro D. de Acosta,2022-10-12 This book studies the large deviations for empirical measures and vector valued additive functionals of Markov chains with general state space Under suitable recurrence conditions the ergodic theorem for additive functionals of a Markov chain asserts the almost sure convergence of the averages of a real or vector valued function of the chain to the mean of the function with respect to the invariant distribution In the case of empirical measures the ergodic theorem states the almost sure convergence in a suitable sense to the invariant distribution The large deviation theorems provide precise asymptotic estimates at logarithmic level of the probabilities of deviating from the preponderant behavior asserted by the ergodic theorems

Large Deviations for Additive Functionals of Markov Chains Alejandro D. de Acosta,Peter Ney,2014-03-05 *Quasi-Stationary Phenomena in Nonlinearly Perturbed Stochastic Systems* Mats Gyllenberg,Dmitrii S. Silvestrov,2008-10-31 The book is devoted to studies of quasi stationary phenomena in nonlinearly perturbed stochastic systems New methods of asymptotic analysis for nonlinearly perturbed stochastic processes based on new types of asymptotic expansions for perturbed renewal equation and recurrence algorithms for construction of asymptotic expansions for Markov type processes with absorption are presented Asymptotic expansions are given in mixed ergodic for processes and large deviation theorems for absorption times for nonlinearly perturbed regenerative processes semi Markov processes and Markov chains Applications to analysis of quasi stationary phenomena in nonlinearly perturbed queueing systems population dynamics and epidemic models and for risk processes are presented The book also contains an extended bibliography of works in the area It is an essential reference for theoretical and applied researchers in the field of stochastic processes and their applications and may be also useful for doctoral and advanced undergraduate students

Convex Analysis and Optimization in Hadamard Spaces Miroslav Bacak,2014-10-29 In the past two decades convex analysis and optimization have been developed in Hadamard spaces This book represents a first attempt to give a systematic account on the subject Hadamard spaces are complete geodesic spaces of nonpositive curvature They include Hilbert spaces Hadamard manifolds Euclidean buildings and many other important spaces While the role of Hadamard spaces in geometry and geometric group theory has been studied for a long time first analytical results appeared as late as in the 1990s Remarkably it turns out that Hadamard spaces are appropriate for the theory of convex sets and convex functions outside of linear spaces Since convexity underpins a large number of results in the geometry of Hadamard spaces we believe that its systematic study is of substantial interest Optimization methods then address various computational issues and provide us with approximation algorithms which may be useful in sciences and engineering We

present a detailed description of such an application to computational phylogenetics The book is primarily aimed at both graduate students and researchers in analysis and optimization but it is accessible to advanced undergraduate students as well

A Course on Large Deviations with an Introduction to Gibbs Measures Firas Rassoul-Agha,Timo

Seppäläinen,2015-03-12 This is an introductory course on the methods of computing asymptotics of probabilities of rare events the theory of large deviations The book combines large deviation theory with basic statistical mechanics namely Gibbs measures with their variational characterization and the phase transition of the Ising model in a text intended for a one semester or quarter course The book begins with a straightforward approach to the key ideas and results of large deviation theory in the context of independent identically distributed random variables This includes Cramér's theorem relative entropy Sanov's theorem process level large deviations convex duality and change of measure arguments Dependence is introduced through the interactions potentials of equilibrium statistical mechanics The phase transition of the Ising model is proved in two different ways first in the classical way with the Peierls argument Dobrushin's uniqueness condition and correlation inequalities and then a second time through the percolation approach Beyond the large deviations of independent variables and Gibbs measures later parts of the book treat large deviations of Markov chains the Gartner-Ellis theorem and a large deviation theorem of Baxter and Jain that is then applied to a nonstationary process and a random walk in a dynamical random environment The book has been used with students from mathematics statistics engineering and the sciences and has been written for a broad audience with advanced technical training Appendixes review basic material from analysis and probability theory and also prove some of the technical results used in the text

Principles of Copula Theory Fabrizio

Durante,Carlo Sempi,2015-07-01 This book gives readers the solid and formal mathematical background to apply copulas to a range of mathematical areas such as probability real analysis measure theory and algebraic structures The authors prove the results as simply as possible and unify various methods scattered throughout the literature in common frameworks including shuffles of copulas They also explore connections with related functions such as quasi copulas semi copulas and triangular norms that have been used in different domains

German Medical Data Sciences: Visions and Bridges Rainer

Röhrlig,Antje Timmer,Harald Binder,Ulrich Sax,2017-09-15 We live in an age characterized by computerized information but ubiquitous information technology has profoundly changed our healthcare systems and if not adequately trained to deal with it healthcare professionals can all too easily be overwhelmed by the complexity and magnitude of the data This demands new skills from physicians as well as novel ways to provide medical knowledge Selecting and assessing relevant information presents a challenge which can only be met by bridging the various disciplines in healthcare and the data sciences This book presents the proceedings of the 62nd annual meeting of the German Association of Medical Informatics Biometry and Epidemiology German Medical Data Sciences GMDS 2017 Visions and Bridges held in Oldenburg Germany in September 2017 The 242 submissions to the conference included 77 full papers of which 42 were accepted for publication here after

rigorous review These are divided into 7 sections teaching and training epidemiological surveillance screening and registration research methods IT infrastructure for biomedical research data integration centers healthcare information systems interoperability standards terminologies classification and biomedical informatics innovative algorithms and signal processing The book provides a vision for healthcare in the information age and will be of interest to all those concerned with improving clinical decision making and the effectiveness and efficiency of health systems using data methods and technology

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