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**RANDOM WALKS ON
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GROUPS**

WOLFGANG WOESS



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Random Walks On Infinite Graphs And Groups

Wolfgang Woess



Random Walks On Infinite Graphs And Groups:

Random Walks on Infinite Graphs and Groups Wolfgang Woess, 2000-02-13 The main theme of this book is the interplay between the behaviour of a class of stochastic processes random walks and discrete structure theory The author considers Markov chains whose state space is equipped with the structure of an infinite locally finite graph or as a particular case of a finitely generated group The transition probabilities are assumed to be adapted to the underlying structure in some way that must be specified precisely in each case From the probabilistic viewpoint the question is what impact the particular type of structure has on various aspects of the behaviour of the random walk Vice versa random walks may also be seen as useful tools for classifying or at least describing the structure of graphs and groups Links with spectral theory and discrete potential theory are also discussed This book will be essential reading for all researchers working in stochastic process and related topics Random walks on infinite graphs and groups Wolfgang Woess, 1991 **Groups, Graphs and Random**

Walks Tullio Ceccherini-Silberstein, Maura Salvatori, Ecaterina Sava-Huss, 2017-06-29 An up to date panoramic account of the theory of random walks on groups and graphs outlining connections with various mathematical fields *Random Walks on Infinite Groups* Steven P. Lalley, 2023-05-08 This text presents the basic theory of random walks on infinite finitely generated groups along with certain background material in measure theoretic probability The main objective is to show how structural features of a group such as amenability nonamenability affect qualitative aspects of symmetric random walks on the group such as transience recurrence speed entropy and existence or nonexistence of nonconstant bounded harmonic functions The book will be suitable as a textbook for beginning graduate level courses or independent study by graduate students and advanced undergraduate students in mathematics with a solid grounding in measure theory and a basic familiarity with the elements of group theory The first seven chapters could also be used as the basis for a short course covering the main results regarding transience recurrence decay of return probabilities and speed The book has been organized and written so as to be accessible not only to students in probability theory but also to students whose primary interests are in geometry ergodic theory or geometric group theory **Potential Theory - ICPT 94** Josef Kral, Jaroslav Lukes, Ivan Netuka, Jiri

Vesely, 2011-10-13 No detailed description available for Potential Theory ICPT 94 **Toeplitz Operators and Random Matrices** Estelle Basor, Albrecht Böttcher, Torsten Ehrhardt, Craig A. Tracy, 2023-01-01 This volume is dedicated to the memory of Harold Widom 1932 2021 an outstanding mathematician who has enriched mathematics with his ideas and ground breaking work since the 1950s until the present time It contains a biography of Harold Widom personal notes written by his former students or colleagues and also his last previously unpublished paper on domain walls in a Heisenberg Ising chain Widom s most famous contributions were made to Toeplitz operators and random matrices While his work on random matrices is part of almost all the present day research activities in this field his work in Toeplitz operators and matrices was done mainly before 2000 and is therefore described in a contribution devoted to his achievements in just this area The

volume contains 18 invited and refereed research and expository papers on Toeplitz operators and random matrices These present new results or new perspectives on topics related to Widom's work *Random Walks and Geometry* Vadim Kaimanovich, 2008-08-22 Recent developments show that probability methods have become a very powerful tool in such different areas as statistical physics dynamical systems Riemannian geometry group theory harmonic analysis graph theory and computer science This volume is an outcome of the special semester 2001 Random Walks held at the Schrödinger Institute in Vienna Austria It contains original research articles with non-trivial new approaches based on applications of random walks and similar processes to Lie groups geometric flows physical models on infinite graphs random number generators Lyapunov exponents geometric group theory spectral theory of graphs and potential theory Highlights are the first survey of the theory of the stochastic Loewner evolution and its applications to percolation theory a new rapidly developing and very promising subject at the crossroads of probability statistical physics and harmonic analysis surveys on expander graphs random matrices and quantum chaos cellular automata and symbolic dynamical systems and others The contributors to the volume are the leading experts in the area The book will provide a valuable source both for active researchers and graduate students in the respective fields *Random Walks, Boundaries and Spectra* Daniel Lenz, Florian Sobieczky, Wolfgang Woess, 2011-06-16 These proceedings represent the current state of research on the topics boundary theory and spectral and probability theory of random walks on infinite graphs They are the result of the two workshops held in Styria Graz and St. Kathrein am Offenegg Austria between June 29th and July 5th 2009 Many of the participants joined both meetings Even though the perspectives range from very different fields of mathematics they all contribute with important results to the same wonderful topic from structure theory which by extending a quotation of Laurent Saloff Coste could be described by exploration of groups by random processes *Random Walks and Discrete Potential Theory* M. Picardello, W. Woess, 1999-11-18 Comprehensive and interdisciplinary text covering the interplay between random walks and structure theory *Quantum Probability and Spectral Analysis of Graphs* Akihito Hora, Nobuaki Obata, 2007-07-05 It is a great pleasure for me that the new Springer Quantum Probability Programme is opened by the present monograph of Akihito Hora and Nobuaki Obata In fact this book epitomizes several distinctive features of contemporary quantum probability First of all the use of specific quantum probabilistic techniques to bring original and quite non-trivial contributions to problems with an old history and on which a huge literature exists both independent of quantum probability Second but not less important the ability to create several bridges among different branches of mathematics apparently far from one another such as the theory of orthogonal polynomials and graph theory Nevanlinna's theory and the theory of representations of the symmetric group Moreover the main topic of the present monograph the asymptotic behaviour of large graphs is acquiring a growing importance in a multiplicity of applications to several different fields from solid state physics to complex networks from biology to telecommunications and operation research to c

binatorial optimization This creates a potential audience for the present book which goes far beyond the mathematicians and includes physicists engineers of several different branches as well as biologists and economists From the mathematical point of view the use of sophisticated analytical tools to draw conclusions on discrete structures such as graphs is particularly appealing The use of analysis the science of the continuum to discover non trivial properties of discrete structures has an established tradition in number theory but in graph theory it constitutes a relatively recent trend and there are few doubts that this trend will expand to an extent comparable to what we find in the theory of numbers Two main ideas of quantum probability form the unifying framework of the present book 1 The quantum decomposition of a classical random variable **Harmonic**

Analysis and Discrete Potential Theory M.A. Picardello, 2013-11-11 This book collects the Proceedings of a Congress held in Frascati Rome in the period July 1 July 10 1991 on the subject of harmonic analysis and discrete potential theory and related topics The Congress was made possible by the financial support of the Italian National Research Council Gruppo GNAFA the Ministry of University Gruppo Analisi Funzionale of the University of Milano the University of Rome Tor Vergata and was also patronized by the Centro Vito Volterra of the University of Rome Tor Vergata Financial support for publishing these Proceedings was provided by the University of Rome Tor Vergata and by a generous contribution of the Centro Vito Volterra I am happy of this opportunity to acknowledge the generous support of all these Institutions and to express my gratitude and that of all the participants A number of distinguished mathematicians took part in the Congress Here is the list of participants M Babillot F Choucroun Th Coulhon L Elie F Ledrappier N Th Varopoulos Paris L Gallardo Brest Ph Bougerol B Roynette Nancy O Gebuhrer Strasbourg G Ahumada Bustamante Mulhouse A Valette Neuchatel P Gerl Salzburg W Hansen H Leptin Bielefeld M Bozejko A Hulanicki T Pytlik Wroclaw C Thomassen Lyngby P Sjogren Goteborg V Kaimanovich Leningrad A Nevo Jerusalem T Steger Chicago S Sawyer M Taibleson G Weiss St Louis J Cohen S S ali ani Maryland D Voiculescu Berkeley A Zemanian Stony Brook S Northshield Plattsburgh J Taylor Montreal J **Analytic Methods in**

Applied Probability Yu. M. Suhov, 2002 Aimed at graduate students theoretical and applied probabilists computer scientists and engineers this volume features 14 original papers on applied probability with an emphasis on queueing and queueing network theory The volume opens with a discussion of the contributions of Fridrikh Karpelevich to the field and a bibliography of his works in this area Other topics include the applicability of queueing network theory to industrial manufacturing and processing the problem of stability of a queueing model regime and new ratio limit theorems for Markov chains The volume is not indexed Annotation copyrighted by Book News Inc Portland OR **Very First Steps in Random**

Walks Norbert Henze, 2025-02-11 With this book which is based on the third edition of a book first written in German about random walks the author succeeds in a remarkably playful manner in captivating the reader with numerous surprising random phenomena and non standard limit theorems related to simple random walks and related topics The work stands out with its consistently problem oriented lively presentation which is further enhanced by 100 illustrative images The text

includes 53 self assessment questions with answers provided at the end of each chapter Additionally 74 exercises with solutions assist in understanding the material deeply The text frequently engages in concrete model building and the resulting findings are thoroughly discussed and interconnected Students who have tested this work in introductory seminars on stochastics were particularly fascinated by the interplay of geometric arguments reflection principle combinatorics elementary stochastics and analysis This book is a translation of an original German edition The translation was done with the help of artificial intelligence A subsequent human revision was done primarily in terms of content so that the book will read stylistically differently from a conventional translation

Fractals in Graz 2001 Peter Grabner, Wolfgang Woess, 2012-12-06 This book contains the proceedings of the conference Fractals in Graz 2001 Analysis Dynamics Geometry Stochastics that was held in the second week of June 2001 at Graz University of Technology in the capital of Styria southeastern province of Austria The scientific committee of the meeting consisted of M Barlow Vancouver R Strichartz Ithaca P Grabner and W Woess both Graz the latter two being the local organizers and editors of this volume We made an effort to unite in the conference as well as in the present proceedings a multitude of different directions of active current work and to bring together researchers from various countries as well as research fields that all are linked in some way with the modern theory of fractal structures Although or because in Graz there is only a very small group working on fractal structures consisting of non insiders we hope to have been successful with this program of wide horizons All papers were written upon explicit invitation by the editors and we are happy to be able to present this representative panorama of recent work on potential theory random walks spectral theory fractal groups dynamic systems fractal geometry and more The papers presented here underwent a refereeing process

Cycle Representations of Markov Processes Sophia L. Kalpazidou, 2013-06-29 This book provides new insight into Markovian dependence via the cycle decompositions It presents a systematic account of a class of stochastic processes known as cycle or circuit processes so called because they may be defined by directed cycles An important application of this approach is the insight it provides to electrical networks and the duality principle of networks This expanded second edition adds new advances which reveal wide ranging interpretations of cycle representations such as homologic decompositions orthogonality equations Fourier series semigroup equations and disintegration of measures The text includes chapter summaries as well as a number of detailed illustrations

Geometric Group Theory Down Under John Cossey, Charles F. Miller, Walter D. Neumann, Michael Shapiro, 2011-05-02 The series is aimed specifically at publishing peer reviewed reviews and contributions presented at workshops and conferences Each volume is associated with a particular conference symposium or workshop These events cover various topics within pure and applied mathematics and provide up to date coverage of new developments methods and applications

LATIN 2014: Theoretical Informatics Alberto Pardo, Alfredo Viola, 2014-03-24 This book constitutes the refereed proceedings of the 11th Latin American Symposium on Theoretical Informatics LATIN 2014 held in Montevideo Uruguay in March April 2014 The 65

papers presented together with 5 abstracts were carefully reviewed and selected from 192 submissions The papers address a variety of topics in theoretical computer science with a certain focus on complexity computational geometry graph drawing automata computability algorithms on graphs algorithms random structures complexity on graphs analytic combinatorics analytic and enumerative combinatorics approximation algorithms analysis of algorithms computational algebra applications to bioinformatics budget problems and algorithms and data structures **Ischia Group Theory 2006 Akbar**

Rhemtulla,Trevor O. Hawkes,Patrizia Longobardi,Mercede Maj,2007 This volume contains a collection of research articles by leading experts in group theory and some accessible surveys of recent research in the area Together they provide an overview of the diversity of themes and applications that interest group theorists today Topics covered in this volume include combinatorial group theory varieties of groups orderable groups conjugacy classes profinite groups probabilistic methods in group theory graphs connected with groups subgroup structure and saturated formations Ischia Group Theory 2006 -

Proceedings Of A Conference In Honor Of Akbar Rhemtulla Trevor Hawkes,Patrizia Longobardi,Mercede Maj,2007-10-29

This volume contains a collection of research articles by leading experts in group theory and some accessible surveys of recent research in the area Together they provide an overview of the diversity of themes and applications that interest group theorists today Topics covered in this volume include combinatorial group theory varieties of groups orderable groups conjugacy classes profinite groups probabilistic methods in group theory graphs connected with groups subgroup structure and saturated formations *Probability on Discrete Structures* Harry Kesten,2013-03-14

Most probability problems involve random variables indexed by space and or time These problems almost always have a version in which space and or time are taken to be discrete This volume deals with areas in which the discrete version is more natural than the continuous one perhaps even the only one than can be formulated without complicated constructions and machinery The 5 papers of this volume discuss problems in which there has been significant progress in the last few years they are motivated by or have been developed in parallel with statistical physics They include questions about asymptotic shape for stochastic growth models and for random clusters existence location and properties of phase transitions speed of convergence to equilibrium in Markov chains and in particular for Markov chains based on models with a phase transition cut off phenomena for random walks The articles can be read independently of each other Their unifying theme is that of models built on discrete spaces or graphs Such models are often easy to formulate Correspondingly the book requires comparatively little previous knowledge of the machinery of probability

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