

The probabilistic method

- Recipe: to prove **existence** of an object with **certain prescribed properties**,
 1. Define a **distribution** on the objects
 2. **Sample** an object
 3. Prove that with **positive probability** the object sampled has the **required properties**
- The required objects must exist !

The Probabilistic Method

Joel Spencer



The Probabilistic Method:

The Probabilistic Method Noga Alon, Joel H. Spencer, 2004-03-22 The leading reference on probabilistic methods in combinatorics now expanded and updated When it was first published in 1991 The Probabilistic Method became instantly the standard reference on one of the most powerful and widely used tools in combinatorics Still without competition nearly a decade later this new edition brings you up to speed on recent developments while adding useful exercises and over 30% new material It continues to emphasize the basic elements of the methodology discussing in a remarkably clear and informal style both algorithmic and classical methods as well as modern applications The Probabilistic Method Second Edition begins with basic techniques that use expectation and variance as well as the more recent martingales and correlation inequalities then explores areas where probabilistic techniques proved successful including discrepancy and random graphs as well as cutting edge topics in theoretical computer science A series of proofs or probabilistic lenses are interspersed throughout the book offering added insight into the application of the probabilistic approach New and revised coverage includes Several improved as well as new results A continuous approach to discrete probabilistic problems Talagrand's Inequality and other novel concentration results A discussion of the connection between discrepancy and VC dimension Several combinatorial applications of the entropy function and its properties A new section on the life and work of Paul Erdős the developer of the probabilistic method

The Probabilistic Method Noga Alon, Joel H. Spencer, 2011-09-20 Praise for the Second Edition Serious researchers in combinatorics or algorithm design will wish to read the book in its entirety the book may also be enjoyed on a lighter level since the different chapters are largely independent and so it is possible to pick out gems in one's own area Formal Aspects of Computing This Third Edition of The Probabilistic Method reflects the most recent developments in the field while maintaining the standard of excellence that established this book as the leading reference on probabilistic methods in combinatorics Maintaining its clear writing style illustrative examples and practical exercises this new edition emphasizes methodology enabling readers to use probabilistic techniques for solving problems in such fields as theoretical computer science mathematics and statistical physics The book begins with a description of tools applied in probabilistic arguments including basic techniques that use expectation and variance as well as the more recent applications of martingales and correlation inequalities Next the authors examine where probabilistic techniques have been applied successfully exploring such topics as discrepancy and random graphs circuit complexity computational geometry and derandomization of randomized algorithms Sections labeled The Probabilistic Lens offer additional insights into the application of the probabilistic approach and the appendix has been updated to include methodologies for finding lower bounds for Large Deviations The Third Edition also features A new chapter on graph property testing which is a current topic that incorporates combinatorial probabilistic and algorithmic techniques An elementary approach using probabilistic techniques to the powerful Szemerédi Regularity Lemma and its applications New sections devoted to percolation and liar

games A new chapter that provides a modern treatment of the Erdős-Rényi phase transition in the Random Graph Process
Written by two leading authorities in the field The Probabilistic Method Third Edition is an ideal reference for researchers in combinatorics and algorithm design who would like to better understand the use of probabilistic methods The book's numerous exercises and examples also make it an excellent textbook for graduate level courses in mathematics and computer science

The Probabilistic Method Noga Alon, Joel H. Spencer, 2015-11-02 Praise for the Third Edition Researchers of any kind of extremal combinatorics or theoretical computer science will welcome the new edition of this book MAA Reviews Maintaining a standard of excellence that establishes The Probabilistic Method as the leading reference on probabilistic methods in combinatorics the Fourth Edition continues to feature a clear writing style illustrative examples and illuminating exercises The new edition includes numerous updates to reflect the most recent developments and advances in discrete mathematics and the connections to other areas in mathematics theoretical computer science and statistical physics Emphasizing the methodology and techniques that enable problem solving The Probabilistic Method Fourth Edition begins with a description of tools applied to probabilistic arguments including basic techniques that use expectation and variance as well as the more advanced applications of martingales and correlation inequalities The authors explore where probabilistic techniques have been applied successfully and also examine topical coverage such as discrepancy and random graphs circuit complexity computational geometry and derandomization of randomized algorithms Written by two well known authorities in the field the Fourth Edition features Additional exercises throughout with hints and solutions to select problems in an appendix to help readers obtain a deeper understanding of the best methods and techniques New coverage on topics such as the Local Lemma Six Standard Deviations result in Discrepancy Theory Property B and graph limits Updated sections to reflect major developments on the newest topics discussions of the hypergraph container method and many new references and improved results The Probabilistic Method Fourth Edition is an ideal textbook for upper undergraduate and graduate level students majoring in mathematics computer science operations research and statistics The Fourth Edition is also an excellent reference for researchers and combinatorists who use probabilistic methods discrete mathematics and number theory Noga Alon PhD is Baumritter Professor of Mathematics and Computer Science at Tel Aviv University He is a member of the Israel National Academy of Sciences and Academia Europaea A coeditor of the journal Random Structures and Algorithms Dr Alon is the recipient of the Polya Prize The G del Prize The Israel Prize and the EMET Prize Joel H Spencer PhD is Professor of Mathematics and Computer Science at the Courant Institute of New York University He is the cofounder and coeditor of the journal Random Structures and Algorithms and is a Sloane Foundation Fellow Dr Spencer has written more than 200 published articles and is the coauthor of Ramsey Theory Second Edition also published by Wiley

Ten Lectures on the Probabilistic Method Joel Spencer, 1994-01-01 This update of the 1987 title of the same name is an examination of what is currently known about the probabilistic method written by one of its principal developers Based on

the notes from Spencer's 1986 series of ten lectures this new edition contains an additional lecture The Janson Inequalities These inequalities allow accurate approximation of extremely small probabilities A new algorithmic approach to the Lovasz Local Lemma attributed to Jozsef Beck has been added to Lecture 8 as well

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Ten Lectures on the Probabilistic Method Joel Spencer, 1994-01-01 This update of the 1987 title of the same name is an examination of what is currently known about the probabilistic method written by one of its principal developers Based on the notes from Spencer's 1986 series of ten lectures this new edition contains an additional lecture The Janson inequalities These inequalities allow accurate approximation of extremely small probabilities A new algorithmic approach to the Lovasz Local Lemma attributed to Jozsef Beck has been added to Lecture 8 as well Throughout the monograph Spencer retains the informal style of his original lecture notes and emphasizes the methodology shunning the more technical best possible results in favor of clearer exposition The book is not encyclopedic it contains only those examples that clearly display the methodology The probabilistic method is a powerful tool in graph theory combinatorics and theoretical computer science It allows one to prove the existence of objects with certain properties e.g colorings by showing that an appropriately defined random object has positive probability of having those properties

Graph Colouring and the Probabilistic Method Michael Molloy, Bruce Reed, 2013-06-29 Over the past decade many major advances have been made in the field of graph colouring via the probabilistic method This monograph provides an accessible and unified treatment of these results using tools such as the Lovasz Local Lemma and Talagrand's concentration inequality The topics covered include Kahn's proofs that the Goldberg Seymour and List Colouring Conjectures hold asymptotically a proof that for some absolute constant C every graph of maximum degree Δ has a Δ/C total colouring Johansson's proof that a triangle free graph has a $O(\Delta/\log \Delta)$ colouring algorithmic variants of the Local Lemma which permit the efficient construction of many optimal and near optimal colourings This begins with a gentle introduction to the probabilistic method and will be useful to researchers and graduate students in graph theory discrete mathematics theoretical computer science and probability

[The Probabilistic Method and Random Graphs](#) Brian Ketelboeter, 2012

Application of a Probabilistic Method Based on Neutrosophic Number in Rock Slope Stability Assessment Bo Li, Kaifeng Zhou, Peng Sha, Jun Ye, The stability of natural rock slopes is influenced by a wide spectrum of factors such as mechanical properties of bedrocks and spatial distribution of discontinuities Their specific values are typically incomplete due mainly to the lack of effective and comprehensive methods to accurately characterize these factors especially those inside of the slopes The neutrosophic number is a useful tool to solve problems in indeterminate environment

Probabilistic Methods for Algorithmic Discrete Mathematics Michel Habib, Colin McDiarmid, Jorge Ramirez-Alfonsin, Bruce Reed, 2013-03-14 Leave nothing to chance This cliché embodies the common belief that randomness has no place in carefully planned methodologies every step should be spelled out each *i* dotted and each *t* crossed In discrete mathematics at least nothing could be further from the

truth Introducing random choices into algorithms can improve their performance The application of probabilistic tools has led to the resolution of combinatorial problems which had resisted attack for decades The chapters in this volume explore and celebrate this fact Our intention was to bring together for the first time accessible discussions of the disparate ways in which probabilistic ideas are enriching discrete mathematics These discussions are aimed at mathematicians with a good combinatorial background but require only a passing acquaintance with the basic definitions in probability e g expected value conditional probability A reader who already has a firm grasp on the area will be interested in the original research novel syntheses and discussions of ongoing developments scattered throughout the book Some of the most convincing demonstrations of the power of these techniques are randomized algorithms for estimating quantities which are hard to compute exactly One example is the randomized algorithm of Dyer Frieze and Kannan for estimating the volume of a polyhedron To illustrate these techniques we consider a simple related problem Suppose S is some region of the unit square defined by a system of polynomial inequalities $P_i(x, y) \leq 0$

Probability and Computing Michael Mitzenmacher, Eli Upfal, 2005-01-31 Randomization and probabilistic techniques play an important role in modern computer science with applications ranging from combinatorial optimization and machine learning to communication networks and secure protocols This 2005 textbook is designed to accompany a one or two semester course for advanced undergraduates or beginning graduate students in computer science and applied mathematics It gives an excellent introduction to the probabilistic techniques and paradigms used in the development of probabilistic algorithms and analyses It assumes only an elementary background in discrete mathematics and gives a rigorous yet accessible treatment of the material with numerous examples and applications The first half of the book covers core material including random sampling expectations Markov's inequality Chebyshev's inequality Chernoff bounds the probabilistic method and Markov chains The second half covers more advanced topics such as continuous probability applications of limited independence entropy Markov chain Monte Carlo methods and balanced allocations With its comprehensive selection of topics along with many examples and exercises this book is an indispensable teaching tool

Probabilistic Method, The. Wiley-Interscience Series in Discrete Mathematics and Optimization Joel Spencer, 2008 This Third Edition of *The Probabilistic Method* reflects the most recent developments in the field while maintaining the standard of excellence that established this book as the leading reference on probabilistic methods in combinatorics Maintaining its clear writing style illustrative examples and practical exercises this new edition emphasizes methodology enabling readers to use probabilistic techniques for solving problems in such fields as theoretical computer science mathematics and statistical physics This book begins with a description of tools applied in probabilistic arguments including basic techniques that use expectation and variance as well as the more recent applications of martingales and correlation inequalities Next the authors examine where probabilistic techniques have been applied successfully exploring such topics as discrepancy and random graphs circuit complexity computational geometry and

derandomization of randomized algorithms Sections labeled The Probabilistic Lens offer additional insights into the application of the probabilistic approach and the appendix has been updated to include methodologies for finding lower bounds for Large Deviations The Third Edition also features a new chapter on graph property testing which is a current topic that incorporates combinatorial probabilistic and algorithmic techniques an elementary approach using probabilistic techniques to the powerful Szemerédi Regularity Lemma and its applications new sections devoted to percolation and liar games and a new chapter that provides a modern treatment of the Erdős-Rényi phase transition in the Random Graph Process Written by two leading authorities in the field The Probabilistic Method Third Edition is an ideal reference for researchers in combinatorics and algorithm design who would like to better understand the use of probabilistic methods The book's numerous exercises and examples also make it an excellent textbook for graduate level courses in mathematics and computer science

The Probabilistic Method in Combinatorics Researcher in combinatorics He, 2021 The probabilistic method is the art of introducing probability to prove results that often do not involve randomness to begin with In this thesis we present four applications of this powerful technique which has become one of the cornerstones of modern combinatorics First we prove a new lower bound for online Ramsey numbers giving for the first time an exponential separation between the lower bounds for classical and online Ramsey numbers Informally this means that it is quite difficult to adaptively find a monochromatic clique in an edge coloring of a large complete graph Next we determine the growth rate of a certain off-diagonal hypergraph Ramsey number answering a question of Erdős and Hajnal from 1972 This is the first nontrivial hypergraph Ramsey number whose exponential order has been determined The proof introduces a new random model for hypergraphs and relies heavily on the entropy method Third we apply the entropy method to extremal graph theory proving Tomescu's graph coloring conjecture from 1971 This determines the maximum number of proper k colorings of any graph with chromatic number k and n vertices In the proof we use an entropy inequality related to sequential importance sampling an estimation technique from statistics Finally we present a result in probabilistic combinatorics outside graph theory An n -permutation is called k -universal if it contains every k -permutation as a pattern and it is known that the shortest k -universal permutation has length $O(k^2)$ It was suggested by Alon that actually almost all n -permutations are k -universal for some $n = O(k^2)$ and he proved that a random permutation of length $O(k^2 \log k)$ is k -universal with high probability Using a structure versus randomness approach we improve this bound to $O(k^2 \log \log k)$ almost closing the gap to the conjecture

[Probabilistic Methods for Algorithmic Discrete Mathematics](#) Michel Habib, Colin McDiarmid, Jorge Ramirez-Alfonsín, 2014-01-15

Discrete Maths and Its Applications Global Edition 7e Kenneth Rosen, 2012-09-16 We are pleased to present this Global Edition which has been developed specifically to meet the needs of international students of discrete mathematics In addition to great depth in key areas and a broad range of real world applications across multiple disciplines we have added new material to make the content more relevant and improve learning outcomes for the international student This Global

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