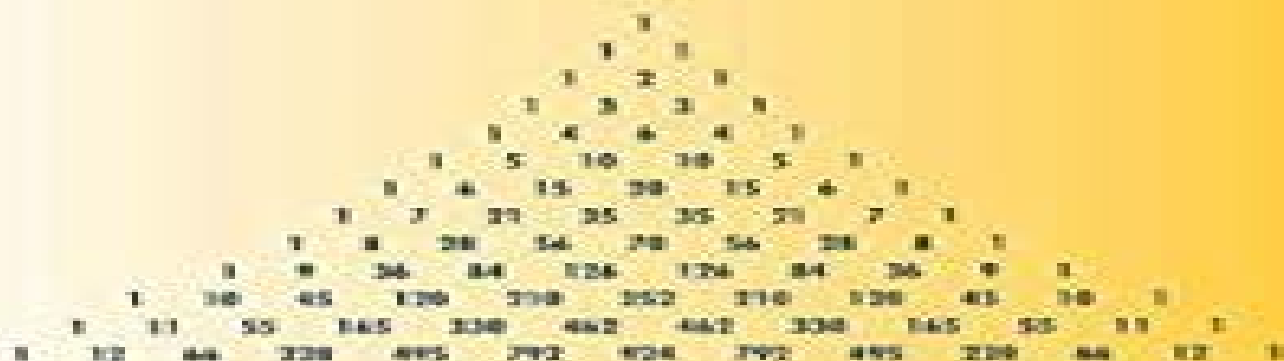


Hugh Gordon

DISCRETE PROBABILITY



Springer

Discrete Probability Undergraduate Texts In Mathematics

RJ Alexander



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Discrete Probability Hugh Gordon, 2012-12-06 DISCRETE PROBABILITY is a textbook at a post calculus level for a first course in probability Since continuous probability is not treated discrete probability can be covered in greater depth The result is a book of special interest to students majoring in computer science as well as those majoring in mathematics Since calculus is used only occasionally students who have forgotten calculus can nevertheless easily understand the book The slow gentle style and clear exposition will appeal to students Basic concepts such as counting independence conditional probability random variables approximation of probabilities generating functions random walks and Markov chains are presented with good explanation and many worked exercises An important feature of the book is the abundance of problems which students may use to master the material The 1 196 numerical answers to the 405 exercises many with multiple parts are included at the end of the book Throughout the book various comments on the history of the study of probability are inserted Biographical information about some of the famous contributors to probability such as Fermat Pascal the Bernoullis DeMoivre Bayes Laplace Poisson Markov and many others is presented This volume will appeal to a wide range of readers and should be useful in the undergraduate programs at many colleges and universities Groups and Symmetry Mark A. Armstrong, 1997-02-27 This is a gentle introduction to the vocabulary and many of the highlights of elementary group theory Written in an informal style the material is divided into short sections each of which deals with an important result or a new idea Includes more than 300 exercises and approximately 60 illustrations **Analysis by Its History** Ernst Hairer, Gerhard Wanner, 2008-06-02 This book presents first year calculus roughly in the order in which it was first discovered The first two chapters show how the ancient calculations of practical problems led to infinite series differential and integral calculus and to differential equations The establishment of mathematical rigour for these subjects in the 19th century for one and several variables is treated in chapters III and IV Many quotations are included to give the flavor of the history The text is complemented by a large number of examples calculations and mathematical pictures and will provide stimulating and enjoyable reading for students teachers as well as researchers *Topics in the Theory of Numbers* Janos Suranyi, Paul Erdős, 2003-01-14 Number theory the branch of mathematics that studies the properties of the integers is a repository of interesting and quite varied problems sometimes impossibly difficult ones In this book the authors have gathered together a collection of problems from various topics in number theory that they find beautiful intriguing and from a certain point of view instructive **Differential Equations** Clay C. Ross, 2013-03-09 Goals and Emphasis of the Book Mathematicians have begun to find productive ways to incorporate computing power into the mathematics curriculum There is no attempt here to use computing to avoid doing differential equations and linear algebra The goal is to make some first explorations in the subject accessible to students who have had one year of calculus Some of the sciences are now using the symbol manipulative power of Mathematica to make more of their subject accessible This book is one way of doing so for differential

equations and linear algebra I believe that if a student's first exposure to a subject is pleasant and exciting then that student will seek out ways to continue the study of the subject The theory of differential equations and of linear algebra permeates the discussion Every topic is supported by a statement of the theory But the primary thrust here is obtaining solutions and information about solutions rather than proving theorems There are other courses where proving theorems is central The goals of this text are to establish a solid understanding of the notion of solution and an appreciation for the confidence that the theory gives during a search for solutions Later the student can have the same confidence while personally developing the theory

A Concrete Introduction to Higher Algebra Lindsay N. Childs, 2012-12-04 This book is written as an introduction to higher algebra for students with a background of a year of calculus The first edition of this book emerged from a set of notes written in the 1970s for a sophomore junior level course at the University at Albany entitled Classical Algebra The objective of the course and the book is to give students enough experience in the algebraic theory of the integers and polynomials to appreciate the basic concepts of abstract algebra The main theoretical thread is to develop algebraic properties of the ring of integers unique factorization into primes congruences and congruence classes Fermat's theorem the Chinese remainder theorem and then again for the ring of polynomials Doing so leads to the study of simple field extensions and in particular to an exposition of finite fields Elementary properties of rings fields groups and homomorphisms of these objects are introduced and used as needed in the development Concurrently with the theoretical development the book presents a broad variety of applications to cryptography error correcting codes Latin squares tournaments techniques of integration and especially to elementary and computational number theory A student who asks Why am I learning this will find answers usually within a chapter or two For a first course in algebra the book offers a couple of advantages By building the algebra out of numbers and polynomials the book takes maximal advantage of the student's prior experience in algebra and arithmetic New concepts arise in a familiar context

Introduction to Analytic Number Theory Tom M. Apostol, 1998-05-28 This book is the first volume of a two volume textbook for undergraduates and is indeed the crystallization of a course offered by the author at the California Institute of Technology to undergraduates without any previous knowledge of number theory For this reason the book starts with the most elementary properties of the natural integers Nevertheless the text succeeds in presenting an enormous amount of material in little more than 300 pages

MATHEMATICAL REVIEWS **A Course in Modern Geometries** Judith N. Cederberg, 2013-03-09 A Course in Modern Geometries is designed for a junior senior level course for mathematics majors including those who plan to teach in secondary school Chapter 1 presents several finite geometries in an axiomatic framework Chapter 2 continues the synthetic approach as it introduces Euclid's geometry and ideas of non Euclidean geometry In Chapter 3 a new introduction to symmetry and hands on explorations of isometries precedes the extensive analytic treatment of isometries similarities and affinities A new concluding section explores isometries of space Chapter 4 presents plane projective geometry both

synthetically and analytically The extensive use of matrix representations of groups of transformations in Chapters 3 4 reinforces ideas from linear algebra and serves as excellent preparation for a course in abstract algebra The new Chapter 5 uses a descriptive and exploratory approach to introduce chaos theory and fractal geometry stressing the self similarity of fractals and their generation by transformations from Chapter 3 Each chapter includes a list of suggested resources for applications or related topics in areas such as art and history The second edition also includes pointers to the web location of author developed guides for dynamic software explorations of the Poincaré model isometries projectivities conics and fractals Parallel versions of these explorations are available for Cabri Geometry and Geometer's Sketchpad Judith N Cederberg is an associate professor of mathematics at St Olaf College in Minnesota

Geometry: Euclid and Beyond Robin

Hartshorne, 2005-09-28 This book offers a unique opportunity to understand the essence of one of the great thinkers of western civilization A guided reading of Euclid's Elements leads to a critical discussion and rigorous modern treatment of Euclid's geometry and its more recent descendants with complete proofs Topics include the introduction of coordinates the theory of area history of the parallel postulate the various non Euclidean geometries and the regular and semi regular polyhedra

Introduction to Cryptography Johannes Buchmann, 2001 This book explains the basic methods of modern cryptography It is written for readers with only basic mathematical knowledge who are interested in modern cryptographic algorithms and their mathematical foundation Several exercises are included following each chapter From the reviews Gives a clear and systematic introduction into the subject whose popularity is ever increasing and can be recommended to all who would like to learn about cryptography ZENTRALBLATT MATH

The Pleasures of Probability Richard Isaac, 1996-11-01

The ideas of probability are all around us Lotteries casino gambling the almost non stop polling which seems to mold public policy more and more these are a few of the areas where principles of probability impinge in a direct way on the lives and fortunes of the general public At a more removed level there is modern science which uses probability and its offshoots like statistics and the theory of random processes to build mathematical descriptions of the real world In fact twentieth century physics in embracing quantum mechanics has a world view that is at its core probabilistic in nature contrary to the deterministic one of classical physics In addition to all this muscular evidence of the importance of probability ideas it should also be said that probability can be lots of fun It is a subject where you can start thinking about amusing interesting and often difficult problems with very little mathematical background In this book I wanted to introduce a reader with at least a fairly decent mathematical background in elementary algebra to this world of probability to the way of thinking typical of probability and the kinds of problems to which probability can be applied I have used examples from a wide variety of fields to motivate the discussion of concepts

Subject Guide to Books in Print, 1997

Newsletter New Zealand Mathematical Society, 2004

Notices of the American Mathematical Society American Mathematical Society, 1992

AMSTAT

News American Statistical Association, 1998

Mathematical Reviews, 2005

Combined Membership List of the

American Mathematical Society and the Mathematical Association of America American Mathematical Society, 1969

Journal of the American Statistical Association , 1997 **Basic Probability Theory with Applications** Mario

Lefebvre, 2009-10-03 The main intended audience for this book is undergraduate students in pure and applied sciences especially those in engineering Chapters 2 to 4 cover the probability theory they generally need in their training Although the treatment of the subject is surely sufficient for non mathematicians I intentionally avoided getting too much into detail For instance topics such as mixed type random variables and the Dirac delta function are only briefly mentioned Courses on probability theory are often considered difficult However after having taught this subject for many years I have come to the conclusion that one of the biggest problems that the students face when they try to learn probability theory particularly nowadays is their deficiencies in basic differential and integral calculus Integration by parts for example is often already forgotten by the students when they take a course on probability For this reason I have decided to write a chapter reviewing the basic elements of differential calculus Even though this chapter might not be covered in class the students can refer to it when needed In this chapter an effort was made to give the readers a good idea of the use in probability theory of the concepts they should already know Chapter 2 presents the main results of what is known as elementary probability including Bayes rule and elements of combinatorial analysis Forthcoming Books Rose Arny, 2003

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