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in combinatorics one often considers the process of enumerating objects of a certain nature which results in a sequence of positive integers with each such sequence one can associate a generating function whose properties tell us a lot about the nature of the objects being enumerated nowadays the language of generating functions is the main language of enumerative combinatorics this book is based on the course given by the author at the college of mathematics of the independent university of moscow it starts with definitions simple properties and numerous examples of generating functions it then discusses various topics such as formal grammars generating functions in several variables partitions and decompositions and the exclusion inclusion principle in the final chapter the author describes applications of generating functions to enumeration of trees plane graphs and graphs embedded in two dimensional surfaces throughout the book the reader is motivated by interesting examples rather than by general theories it also contains a lot of exercises to help the reader master the material little beyond the standard calculus course is necessary to understand the book it can serve as a text for a one semester undergraduate course in combinatorics

mathematics research opportunities for undergraduate students have grown significantly in recent years but accessible research topics for first and second year students are still hard to find to address this need this volume provides beginning students who have already had some exposure to calculus with specific

research projects and the tools required to tackle them chapters are self contained presenting projects students can pursue along with essential background material and suggestions for further reading in addition to calculus some of the later chapters require prerequisites such as linear algebra and statistics suggested prerequisites are noted at the beginning of each chapter some topics covered include lattice walks in the plane statistical modeling of survival data building blocks and geometry modeling of weather and climate change mathematics of risk and insurance mathematics research for the beginning student volume 2 will appeal to undergraduate students at two and four year colleges who are interested in pursuing mathematics research projects faculty members interested in serving as advisors to these students will find ideas and guidance as well this volume will also be of interest to advanced high school students interested in exploring mathematics research for the first time a separate volume with research projects for students who have not yet studied calculus is also available

this book is a comprehensive collection of the main mathematical concepts including definitions theorems tables and formulas that students of science and engineering will encounter in their studies and later careers handbook of mathematical concepts and formulas introduces the latest mathematics in an easily accessible format it familiarizes readers with key mathematical and logical reasoning providing clear routes to approach questions and problems concepts covered include whole calculus linear and abstract algebra as well as analysis applied math mathematical statistics and numerical analysis the appendices address mathematica and matlab programming which contain simple programs for educational purposes alongside more rigorous programs designed to solve problems of more real application

hover over the image to zoom click the image for a popup email a friend about this itemlogin to submit a review inshare john mccleary in exercises in mathematical style the author investigates the world of that familiar set of numbers the binomial coefficients while the reader learns some of the properties relations and generalizations of the numbers of pascal s triangle each story explores a different mode of discourse from arguing algebraically combinatorially geometrically or by induction contradiction or recursion to discovering mathematical facts in poems music letters and various styles of stories the author follows the example of raymond queneau s exercises in style giving the reader 99 stories in various styles the ubiquitous nature of binomial coefficients leads the tour through combinatorics number theory algebra analysis and even topology the book celebrates the joy of writing and the joy of mathematics found by engaging the rich properties of this simple set of numbers

written by the founder of symbolic logic and boolean algebra this classic treatise on the calculus of finite differences offers a thorough discussion of the basic principles of the subject covering nearly all the major theorems and methods with clarity and rigor includes more than 200 problems 1872 edition

this is the second edition of the highly successful introduction to the use of generating functions and series in combinatorial mathematics this new edition includes several new areas of application including the cycle index of the symmetric group permutations and square roots counting polyominoes and exact covering sequences an appendix on using the computer algebra programs maple r and mathematica r to generate functions is also included the book provides a clear unified introduction to the basic enumerative applications of generating functions and includes exercises and solutions many new at the end of each chapter provides new applications on the cycle index of the symmetric group permutations and square roots counting polyominoes and exact covering sequences features an appendix on using maple r and mathematica r to generate functions includes many new exercises with complete solutions at the end of each chapter

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