Lectures On Generating Functions Student Mathematical Library Vol 23

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solutions for all the problems are provided book jacket

the main notions of set theory cardinals ordinals transfinite induction are fundamental to all mathematicians not only to those who specialize in mathematical logic or set theoretic topology basic set theory is generally given a brief overview in courses on analysis algebra or topology even though it is sufficiently important interesting and simple to merit its own leisurely treatment this book provides just that a leisurely exposition for a diversified audience it is suitable for a broad range of readers from undergraduate students to professional mathematicians who want to finally find out what transfinite induction is and why it is always replaced by zorn s lemma the text introduces all main subjects of naive nonaxiomatic set theory functions cardinalities ordered and well ordered sets transfinite induction and its applications ordinals and operations on ordinals included are discussions and proofs of the cantor bernstein theorem cantor s diagonal method zorn s lemma zermelo s theorem and hamel bases with over 150 problems the book is a complete and accessible introduction to the subject

we learn by doing we learn mathematics by doing problems and we learn more mathematics by doing more problems this is the sequel to problems in mathematical analysis i volume 4 in the student mathematical library series if you want to hone your understanding of continuous and differentiable functions this book contains hundreds of problems to help you do so the emphasis here is on real functions of a single variable the book is mainly geared toward students studying the basic principles of analysis however given its selection of problems organization and level it would be an ideal choice for tutorial or problem solving seminars particularly those geared toward the putnam exam it is also suitable for self study the presentation of the material is designed to help student comprehension to encourage them to ask their own questions and to start research the collection of problems will also help teachers who wish to incorporate problems into their lectures the problems are grouped into sections according to the methods of solution solutions for the problems are provided

this book presents a course in the geometry of convex polytopes in arbitrary dimension suitable for an advanced undergraduate or beginning graduate student the book starts with the basics of polytope theory schlegel and gale diagrams are introduced as geometric tools to visualize polytopes in high dimension and to unearth bizarre phenomena in polytopes the heart of the book is a treatment of the secondary polytope of a point configuration and its connections to the state polytope of the toric ideal defined by the configuration these polytopes are relatively recent constructs with numerous connections to discrete geometry classical algebraic geometry symplectic geometry and combinatorics the connections rely on grobner bases of toric ideals and other methods from commutative algebra the book is self contained and does not require any background beyond basic linear algebra

with numerous figures and exercises it can be used as a textbook for courses on geometric combinatorial and computational aspects of the theory of polytopes

we learn by doing we learn mathematics by doing problems and we learn more mathematics by doing more problems this is the sequel to problems in mathematical analysis i volume 4 in the student mathematical library series if you want to hone your understanding of continuous and differentiable functions this book contains hundreds of problems to help you do so the emphasis here is on real functions of a single variable the topics include continuous functions the intermediate value property uniform continuity mean value theorems taylors formula convex functions sequences and series of functions the book is mainly geared toward students studying the basic principles of analysis however given its selection of problems organization and level it would be an ideal choice for tutorial or problem solving seminars particularly those geared toward the putnam exam it is also suitable for self study the presentation of the material is designed to help student comprehension to encourage them to ask their own questions and to start research the collection of problems will also help teachers who wish to incorporate problems into their lectures the problems are grouped into sections according to the methods of solution solutions for the problems are provided this is the sequel to problems in mathematical analysis i volume 4 in the student mathematical library series also available from the ams is problems in analysis iii

the minimal background requirements and the author s fresh approach make this book enjoyable and accessible to a wide range of students mathematicians and fans of number theory book jacket

the calculus of variations is a beautiful subject with a rich history and with origins in the minimization problems of calculus although it is now at the core of many modern mathematical fields it does not have a well defined place in most undergraduate mathematics curricula this volume should nevertheless give the undergraduate reader a sense of its great character and importance interesting functionals such as area or energy often give rise to problems whose most natural solution occurs by differentiating a one parameter family of variations of some function the critical points of the functional are related to the solutions of the associated euler lagrange equation these differential equations are at the heart of the calculus of variations and its applications to wave mechanics minimal surfaces soap bubbles and modeling traffic flow all are readily accessible to advanced undergraduates this book is derived from a workshop sponsored by rice university it is suitable for advanced undergraduates graduate students and research mathematicians interested in the calculus of variations and its applications to other subjects

this book provides a conceptual introduction to the theory of ordinary differential equations concentrating on the initial value problem for equations of evolution and with applications to the calculus of variations and classical mechanics along with a discussion of chaos theory and ecological models it has a unified and visual introduction to the theory of numerical methods and a novel approach to the analysis of errors and stability of various numerical solution algorithms based on carefully chosen model problems while the book would be suitable as a textbook for an undergraduate or elementary graduate course in ordinary differential equations the authors have designed the text also to be useful for motivated students wishing to learn the material on their own or desiring to supplement an ode textbook being used in a course they are taking with a text offering a more conceptual approach to the subject

algebraic geometry is introduced with particular attention given to projective curves rational functions and divisors the construction of algebraic geometric codes is given and the tsfasman vladut zink result mentioned above it discussed book jacket

asymptotics in one form or another are part of the landscape for every mathematician the objective of this book is to present the ideas of how to approach asymptotic problems that arise in discrete mathematics analysis of algorithms and number theory a broad range of topics is covered including distribution of prime integers erdős magic random graphs ramsey numbers and asymptotic geometry provided by publisher

this practically focused study guide introduces the fundamentals of discrete mathematics through an extensive set of classroom tested problems each chapter presents a concise introduction to the relevant theory followed by a detailed account of common challenges and methods for overcoming these the reader is then encouraged to practice solving such problems for themselves by tackling a varied selection of questions and assignments of different levels of complexity this updated second edition now covers the design and analysis of algorithms using python and features more than 50 new problems complete with solutions topics and features provides a substantial collection of problems and examples of varying levels of difficulty suitable for both laboratory practical training and self study offers detailed solutions to each problem applying commonly used methods and computational schemes introduces the fundamentals of mathematical logic the theory of algorithms boolean algebra graph theory sets relations functions and combinatorics presents more advanced material on the design and analysis of algorithms including turing machines asymptotic analysis and parallel algorithms includes reference lists of trigonometric and finite summation formulae in an appendix together with basic rules for differential and integral calculus this hands on workbook is an invaluable

resource for undergraduate students of computer science informatics and electronic engineering suitable for use in a one or two semester course on discrete mathematics the text emphasizes the skills required to develop and implement an algorithm in a specific programming language

surfaces are among the most common and easily visualized mathematical objects and their study brings into focus fundamental ideas concepts and methods from geometry topology complex analysis morse theory and group theory at the same time many of those notions appear in a technically simpler and more graphic form than in their general natural settings the first primarily expository chapter introduces many of the principal actors the round sphere flat torus mobius strip klein bottle elliptic plane etc as well as various methods of describing surfaces beginning with the traditional representation by equations in three dimensional space proceeding to parametric representation and also introducing the less intuitive but central for our purposes representation as factor spaces it concludes with a preliminary discussion of the metric geometry of surfaces and the associated isometry groups subsequent chapters introduce fundamental mathematical structures topological combinatorial piecewise linear smooth riemannian metric and complex in the specific context of surfaces the focal point of the book is the euler characteristic which appears in many different guises and ties together concepts from combinatorics algebraic topology morse theory ordinary differential equations and riemannian geometry the repeated appearance of the euler characteristic provides both a unifying theme and a powerful illustration of the notion of an invariant in all those theories the assumed background is the standard calculus sequence some linear algebra and rudiments of ode and real analysis all notions are introduced and discussed and virtually all results proved based on this background this book is a result of the mass course in geometry in the fall semester of 2007

miles of tiles is a mathematics lesson for middle school classes requiring students to calculate the number and cost of tiles needed to cover the floor of the classroom this lesson includes internet activities miles of tiles is presented as a service of the link to learn professional development project of pennsylvania a state sponsored educational technology initiative

everyone knows some of the basics of probability perhaps enough to play cards beyond the introductory ideas there are many wonderful results that are unfamiliar to the layman but which are well within our grasp to understand and appreciate some of the most remarkable results in probability are those that are related to limit theorems statements about what happens when the trial is repeated many times the most famous of these is the law of large numbers which mathematicians engineers economists and

many others use every day in this book lesigne has made these limit theorems accessible by stating everything in terms of a game of tossing of a coin heads or tails in this way the analysis becomes much clearer helping establish the reader s intuition aboutprobability moreover very little generality is lost as many situations can be modelled from combinations of coin tosses this book is suitable for anyone who would like to learn more about mathematical probability and has had a one year undergraduate course in analysis

this book provides a basic initial resource introducing science and engineering students to the field of optimization it covers three main areas mathematical programming calculus of variations and optimal control highlighting the ideas and concepts and offering insights into the importance of optimality conditions in each area it also systematically presents affordable approximation methods exercises at various levels have been included to support the learning process

this collection of high quality articles in the field of combinatorics geometry algebraic topology and theoretical computer science is a tribute to jiří matoušek who passed away prematurely in march 2015 it is a collaborative effort by his colleagues and friends who have paid particular attention to clarity of exposition something jirka would have approved of the original research articles surveys and expository articles written by leading experts in their respective fields map jiří matoušek s numerous areas of mathematical interest

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