MATHEMATICS
A DISCRETE INTRODUCTION

Third Edition

Edward R. Scheinerman

Mathematics A Discrete Introduction

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Mathematics with Ducks sarah-marie belcastro,2012-06-21 Containing exercises and materials that engage students at all levels Discrete Mathematics with Ducks presents a gentle introduction for students who find the proofs and abstractions of mathematics challenging This classroom tested text uses discrete mathematics as the context for introducing proofwriting Facilitating effective and active learni *Journey into Discrete Mathematics* Owen D. Byer,Deirdre L. Smeltzer,Kenneth L. Wantz,2018-11-13 Journey into Discrete Mathematics is designed for use in a first course in mathematical abstraction for early career undergraduate mathematics majors The important ideas of discrete mathematics are included logic sets proof writing relations counting number theory and graph theory in a manner that promotes development of a mathematical mindset and prepares students for further study While the treatment is designed to prepare the student reader for the mathematics major the book remains attractive and appealing to students of computer science and other problem solving disciplines The exposition is exquisite and engaging and features detailed descriptions of the thought processes that one might follow to attack the problems of mathematics The problems are appealing and vary widely in depth and difficulty Careful design of the book helps the student reader learn to think like a mathematician through the exposition and the problems provided Several of the core topics including counting number theory and graph theory are visited twice once in an introductory manner and then again in a later chapter with more advanced concepts and with a deeper perspective Owen D Byer and Deirdre L Smeltzer are both Professors of Mathematics at Eastern Mennonite University Kenneth L Wantz is Professor of Mathematics at Regent University Collectively the authors have specialized expertise and research publications ranging widely over discrete mathematics and have over fifty semesters of combined experience in teaching this subject

An Excursion through Elementary Mathematics, Volume I Antonio Caminha Muniz Neto,2017-03-31 This book provides a comprehensive in depth overview of elementary mathematics as explored in Mathematical Olympiads around the world It expands on topics usually encountered in high school and could even be used as preparation for a first semester undergraduate course This first volume covers Real Numbers Functions Real Analysis Systems of Equations Limits and Derivatives and much more As part of a collection the book differs from other publications in this field by not being a mere selection of questions or a set of tips and tricks that applies to specific problems It starts from the most basic theoretical principles without being either too general or too axiomatic Examples and problems are discussed only if they are helpful as applications of the theory Propositions are proved in detail and subsequently applied to Olympic problems or to other problems at the Olympic level The book also explores some of the hardest problems presented at National and International Mathematics Olympiads as well as many essential theorems related to the content An extensive Appendix offering hints on or full solutions for all difficult problems rounds out the book *Discrete Encounters* Craig Bauer,2020-05-14 Eschewing the often standard dry and static writing style of traditional textbooks Discrete Encounters provides a refreshing approach to discrete mathematics The author blends traditional course topics and applications with historical context pop culture

references and open problems This book focuses on the historical development of the subject and provides fascinating details of the people behind the mathematics along with their motivations deepening readers appreciation of mathematics This unique book covers many of the same topics found in traditional textbooks but does so in an alternative entertaining style that better captures readers attention In addition to standard discrete mathematics material the author shows the interplay between the discrete and the continuous and includes high interest topics such as fractals chaos theory cellular automata money saving financial mathematics and much more Not only will readers gain a greater understanding of mathematics and its culture they will also be encouraged to further explore the subject Long lists of references at the end of each chapter make this easy Highlights Features fascinating historical context to motivate readers Text includes numerous pop culture references throughout to provide a more engaging reading experience Its unique topic structure presents a fresh approach The text s narrative style is that of a popular book not a dry textbook Includes the work of many living mathematicians Its multidisciplinary approach makes it ideal for liberal arts mathematics classes leisure reading or as a reference for professors looking to supplement traditional courses Contains many open problems Profusely illustrated   **An Invitation to Real Analysis** Luis F. Moreno,2015-05-17 An Invitation to Real Analysis is written both as a stepping stone to higher calculus and analysis courses and as foundation for deeper reasoning in applied mathematics This book also provides a broader foundation in real analysis than is typical for future teachers of secondary mathematics In connection with this within the chapters students are pointed to numerous articles from The College Mathematics Journal and The American Mathematical Monthly These articles are inviting in their level of exposition and their wide ranging content Axioms are presented with an emphasis on the distinguishing characteristics that new ones bring culminating with the axioms that define the reals Set theory is another theme found in this book beginning with what students are familiar with from basic calculus This theme runs underneath the rigorous development of functions sequences and series and then ends with a chapter on transfinite cardinal numbers and with chapters on basic point set topology Differentiation and integration are developed with the standard level of rigor but always with the goal of forming a firm foundation for the student who desires to pursue deeper study A historical theme interweaves throughout the book with many quotes and accounts of interest to all readers Over 600 exercises and dozens of figures help the learning process Several topics continued fractions for example are included in the appendices as enrichment material An annotated bibliography is included   **An Excursion through Elementary Mathematics, Volume III** Antonio Caminha Muniz Neto,2018-04-17 This book provides a comprehensive in depth overview of elementary mathematics as explored in Mathematical Olympiads around the world It expands on topics usually encountered in high school and could even be used as preparation for a first semester undergraduate course This third and last volume covers Counting Generating Functions Graph Theory Number Theory Complex Numbers Polynomials and much more As part of a collection the book differs from other publications in this field by not being a mere selection of questions or a set of tips and

tricks that applies to specific problems It starts from the most basic theoretical principles without being either too general or too axiomatic Examples and problems are discussed only if they are helpful as applications of the theory Propositions are proved in detail and subsequently applied to Olympic problems or to other problems at the Olympic level The book also explores some of the hardest problems presented at National and International Mathematics Olympiads as well as many essential theorems related to the content An extensive Appendix offering hints on or full solutions for all difficult problems rounds out the book   *The Tower of Hanoi – Myths and Maths* Andreas M. Hinz,Sandi Klavžar,Uroš Milutinović,Ciril Petr,2013-01-31 This is the first comprehensive monograph on the mathematical theory of the solitaire game The Tower of Hanoi which was invented in the 19th century by the French number theorist douard Lucas The book comprises a survey of the historical development from the game s predecessors up to recent research in mathematics and applications in computer science and psychology Apart from long standing myths it contains a thorough largely self contained presentation of the essential mathematical facts with complete proofs including also unpublished material The main objects of research today are the so called Hanoi graphs and the related Sierpi ski graphs Acknowledging the great popularity of the topic in computer science algorithms and their correctness proofs form an essential part of the book In view of the most important practical applications of the Tower of Hanoi and its variants namely in physics network theory and cognitive neuro psychology other related structures and puzzles like e g the Tower of London are addressed Numerous captivating integer sequences arise along the way but also many open questions impose themselves Central among these is the famed Frame Stewart conjecture Despite many attempts to decide it and large scale numerical experiments supporting its truth it remains unsettled after more than 70 years and thus demonstrates the timeliness of the topic Enriched with elaborate illustrations connections to other puzzles and challenges for the reader in the form of solved exercises as well as problems for further exploration this book is enjoyable reading for students educators game enthusiasts and researchers alike   **Discrete Mathematics** Oscar Levin,2024-12 This book aims to provide an introduction to select topics in discrete mathematics at a level appropriate for first or second year undergraduate math and computer science majors especially those who intend to teach middle and high school mathematics The book began as a set of notes for the Discrete Mathematics course at the University of Northern Colorado This course serves both as a survey of the topics in discrete math and as the bridge course for math majors   A Transition to Advanced Mathematics William Johnston,Alex McAllister,2009-07-27 A Transition to Advanced Mathematics A Survey Course promotes the goals of a bridge course in mathematics helping to lead students from courses in the calculus sequence and other courses where they solve problems that involve mathematical calculations to theoretical upper level mathematics courses where they will have to prove theorems and grapple with mathematical abstractions The text simultaneously promotes the goals of a survey course describing the intriguing questions and insights fundamental to many diverse areas of mathematics including Logic Abstract Algebra Number Theory Real Analysis Statistics Graph Theory and

Complex Analysis The main objective is to bring about a deep change in the mathematical character of students how they think and their fundamental perspectives on the world of mathematics This text promotes three major mathematical traits in a meaningful transformative way to develop an ability to communicate with precise language to use mathematically sound reasoning and to ask probing questions about mathematics In short we hope that working through A Transition to Advanced Mathematics encourages students to become mathematicians in the fullest sense of the word A Transition to Advanced Mathematics has a number of distinctive features that enable this transformational experience Embedded Questions and Reading Questions illustrate and explain fundamental concepts allowing students to test their understanding of ideas independent of the exercise sets The text has extensive diverse Exercises Sets with an average of 70 exercises at the end of section as well as almost 3 000 distinct exercises In addition every chapter includes a section that explores an application of the theoretical ideas being studied We have also interwoven embedded reflections on the history culture and philosophy of mathematics throughout the text   Graphs and Networks Armen H. Zemanian,2012-12-06 Scientia Gratiii Scientiae It is now thirteen years since the first book that discusses transfinite graphs and elec trical networks appeared 50 This was followed by two more books 51 and 54 which compiled results from an ongoing research effort on that subject Why then is a fourth book this one being offered Simply because still more has been achieved beyond that appearing in those prior books An exposition of these more recent re sults is the purpose of this book The idea of transfiniteness for graphs and networks appeared as virgin research territory about seventeen years ago Notwithstanding the progress that has since been achieved much more remains to be done or so it appears Many conclusions con cerning conventionally infinite graphs and networks can be reformulated as open problems for transfinite graphs and networks Furthermore questions peculiar to transfinite concepts for graphs and networks can be suggested Indeed these two considerations have inspired the new results displayed herein   **The Mathematics Lover's Companion** Edward R. Scheinerman,2017-01-01 Twenty three mathematical masterpieces for exploration and enlightenment How can a shape have more than one dimension but fewer than two What is the best way to elect public officials when more than two candidates are vying for the office Is it possible for a highly accurate medical test to give mostly incorrect results Can you tile your floor with regular pentagons How can you use only the first digit of sales numbers to determine if your accountant is lying Can mathematics give insights into free will Edward Scheinerman an accomplished mathematician and enthusiastic educator answers all these questions and more in this book a collection of mathematical masterworks In bite sized chapters that require only high school algebra he invites readers to try their hands at solving mathematical puzzles and provides an engaging and friendly tour of numbers shapes and uncertainty The result is an unforgettable introduction to the fundamentals and pleasures of thinking mathematically   CRC Concise Encyclopedia of Mathematics Eric W. Weisstein,2002-12-12 Upon publication the first edition of the CRC Concise Encyclopedia of Mathematics received overwhelming accolades for its unparalleled scope readability and utility It soon took

its place among the top selling books in the history of Chapman Hall CRC and its popularity continues unabated Yet also unabated has been the d **Statistics and Data Visualisation with Python** Jesus Rogel-Salazar,2023-01-31 This book is intended to serve as a bridge in statistics for graduates and business practitioners interested in using their skills in the area of data science and analytics as well as statistical analysis in general On the one hand the book is intended to be a refresher for readers who have taken some courses in statistics but who have not necessarily used it in their day to day work On the other hand the material can be suitable for readers interested in the subject as a first encounter with statistical work in Python Statistics and Data Visualisation with Python aims to build statistical knowledge from the ground up by enabling the reader to understand the ideas behind inferential statistics and begin to formulate hypotheses that form the foundations for the applications and algorithms in statistical analysis business analytics machine learning and applied machine learning This book begins with the basics of programming in Python and data analysis to help construct a solid basis in statistical methods and hypothesis testing which are useful in many modern applications **Introduction to Discrete Mathematics via Logic and Proof** Calvin Jongsma,2019-11-08 This textbook introduces discrete mathematics by emphasizing the importance of reading and writing proofs Because it begins by carefully establishing a familiarity with mathematical logic and proof this approach suits not only a discrete mathematics course but can also function as a transition to proof Its unique deductive perspective on mathematical logic provides students with the tools to more deeply understand mathematical methodology an approach that the author has successfully classroom tested for decades Chapters are helpfully organized so that as they escalate in complexity their underlying connections are easily identifiable Mathematical logic and proofs are first introduced before moving onto more complex topics in discrete mathematics Some of these topics include Mathematical and structural induction Set theory Combinatorics Functions relations and ordered sets Boolean algebra and Boolean functions Graph theory Introduction to Discrete Mathematics via Logic and Proof will suit intermediate undergraduates majoring in mathematics computer science engineering and related subjects with no formal prerequisites beyond a background in secondary mathematics

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