**Edward Scheinerman** 

# **Mathematics: A Discrete Introduction**

Second Edition



# **Mathematics A Discrete Introduction By Edward Scheinerman**

**Edward Scheinerman** 

#### **Mathematics A Discrete Introduction By Edward Scheinerman:**

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active learning It is designed to help students learn about discrete mathematics through problem based activities These are created to inspire students to understand mathematics by actively practicing and doing which helps students better retain what they we learned As such each chapter contains a mixture of discovery based activities projects expository text in class exercises and homework problems The author's lively and friendly writing style is appealing to both instructors and students alike and encourages readers to learn The book s light hearted approach to the subject is a guiding principle and helps students learn mathematical abstraction Features The book s Try This sections encourage students to construct components of discussed concepts theorems and proofs Provided sets of discovery problems and illustrative examples reinforce learning Bonus sections can be used by instructors as part of their regular curriculum for projects or for further study Mathematics Ali Grami, 2022-04-29 Discrete Mathematics Essentials and Applications offers a comprehensive survey of the area particularly concentrating on the basic principles and applications of Discrete Mathematics This up to date text provides proofs of significance keeping the focus on numerous relevant examples and many pertinent applications Written in a simple and clear tone the title features insightful descriptions and intuitive explanations of all complex concepts and ensures a thorough understanding of the subject matter Offers easy to understand coverage of the subject matter with a class tested pedagogical approach Covers all topics in Discrete Math in a comprehensive yet not overwhelming way Includes numerous meaningful examples on all topics to bring insight and relevant applications for all major topics **Iourney 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 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 **Lectures on Discrete Mathematics** Stefano Capparelli, 2025-01-27 These are the notes from my Discrete Mathematics lectures delivered primarily to students in Communication and Electrical Engineering at Sapienza University of Rome The course is roughly divided into the following parts Elements of Number Theory Elements of Modern Algebra Elements of Combinatorics Elements of Graph Theory The objective of these lectures was to illustrate various topics across the broad areas of modern mathematics into which Discrete Mathematics is traditionally divided Additionally I aimed to take an experimental approach to the material frequently encouraging students whenever feasible to use computers and computer algebra systems to conduct their own experiments Given the wide range of potential topics it was challenging to select a single textbook that encompassed everything I wanted to cover and only that Consequently I consulted numerous sources all of which are acknowledged in the bibliography and A Transition to Advanced recommended for further study The book contains also numerous solved exercises Mathematics William Johnston, Alex McAllister, 2009-07-27 Preface 1 Mathematical Logic 2 Abstract Algebra 3 Number Theory 4 Real Analysis 5 Probability and Statistics 6 Graph Theory 7 Complex Analysis Answers to Questions Answers to Odd Numbered Ouestions Index of Online Resources Bibliography Index 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

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