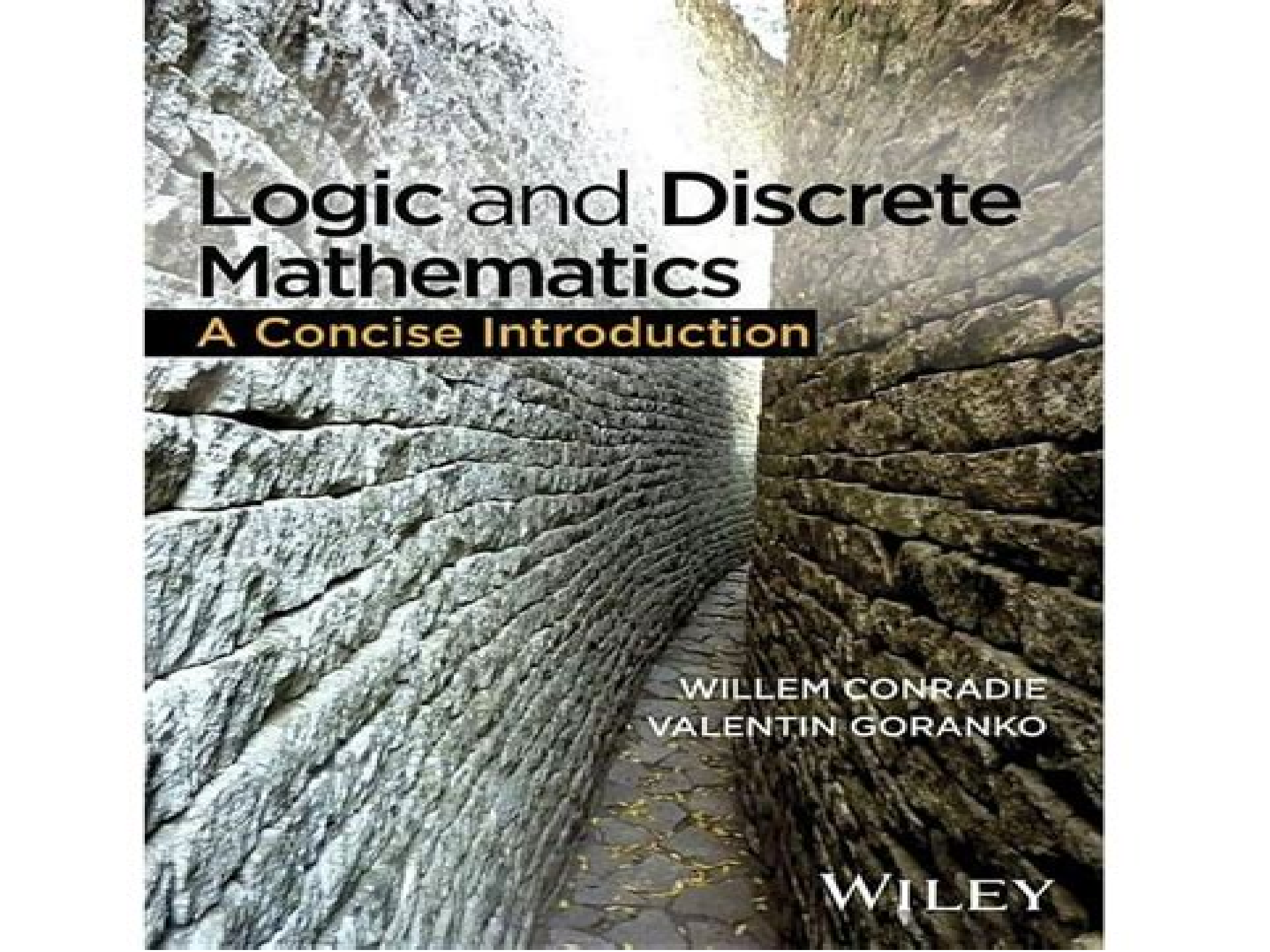




Logic and Discrete Mathematics

A Concise Introduction

WILLEM CONRADIE
VALENTIN GORANKO

WILEY

Logic And Discrete Mathematics A Concise Introduction

Umar Ghoni



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Logic and Discrete Mathematics Willem Conradie,Valentin Goranko,Claudette Robinson,2015-05-08 Solutions manual to accompany Logic and Discrete Mathematics A Concise Introduction This book features a unique combination of comprehensive coverage of logic with a solid exposition of the most important fields of discrete mathematics presenting material that has been tested and refined by the authors in university courses taught over more than a decade Written in a clear and reader friendly style each section ends with an extensive set of exercises most of them provided with complete solutions which are available in this accompanying solutions manual *Discrete Mathematics* George Tourlakis,2024-01-03 This book is ideal for a first or second year discrete mathematics course for mathematics engineering and computer science majors The author has extensively class tested early conceptions of the book over the years and supplements mathematical arguments with informal discussions to aid readers in understanding the presented topics Safe that is paradox free informal set theory is introduced following on the heels of Russell s Paradox as well as the topics of finite countable and uncountable sets with an exposition and use of Cantor s diagonalisation technique Predicate logic for the user is introduced along with axioms and rules and extensive examples Partial orders and the minimal condition are studied in detail with the latter shown to be equivalent to the induction principle Mathematical induction is illustrated with several examples and is followed by a thorough exposition of inductive definitions of functions and sets Techniques for solving recurrence relations including generating functions the O and o notations and trees are provided Over 200 end of chapter exercises are included to further aid in the understanding and applications of discrete mathematics **Logic and Discrete Mathematics** Willem Conradie,Valentin Goranko,2015-04-16 A concise yet rigorous introduction to logic and discrete mathematics This book features a unique combination of comprehensive coverage of logic with a solid exposition of the most important fields of discrete mathematics presenting material that has been tested and refined by the authors in university courses taught over more than a decade The chapters on logic propositional and first order provide a robust toolkit for logical reasoning emphasizing the conceptual understanding of the language and the semantics of classical logic as well as practical applications through the easy to understand and use deductive systems of Semantic Tableaux and Resolution The chapters on set theory number theory combinatorics and graph theory combine the necessary minimum of theory with numerous examples and selected applications Written in a clear and reader friendly style each section ends with an extensive set of exercises most of them provided with complete solutions which are available in the accompanying solutions manual Key Features Suitable for a variety of courses for students in both Mathematics and Computer Science Extensive in depth coverage of classical logic combined with a solid exposition of a selection of the most important fields of discrete mathematics Concise clear and uncluttered presentation with numerous examples Covers some applications including cryptographic systems discrete probability and network algorithms Logic and Discrete Mathematics A Concise Introduction

is aimed mainly at undergraduate courses for students in mathematics and computer science but the book will also be a valuable resource for graduate modules and for self study

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Discrete 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

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Logic as a Tool

Valentin Goranko,2016-10-17 Written in a clear precise and user friendly style Logic as a Tool A Guide to Formal Logical Reasoning is intended for undergraduates in both mathematics and computer science and will guide them to learn understand and master the use of classical logic as a tool for doing correct reasoning It offers a systematic and precise exposition of classical logic with many examples and exercises and only the necessary minimum of theory The book explains the grammar semantics and use of classical logical languages and teaches the reader how grasp the meaning and translate them to and from natural language It illustrates with extensive examples the use of the most popular deductive systems axiomatic systems semantic tableaux natural deduction and resolution for formalising and automating logical reasoning both on propositional and on first order level and provides the reader with technical skills needed for practical derivations in them Systematic guidelines are offered on how to perform logically correct and well structured reasoning using these deductive systems and the reasoning techniques that they employ Concise and systematic exposition with semi formal but rigorous treatment of the minimum necessary theory amply illustrated with examples Emphasis both on conceptual understanding and on developing practical skills Solid and balanced coverage of syntactic semantic and deductive aspects of logic Includes extensive sets of exercises many of them provided with solutions or answers Supplemented by a website including detailed slides additional exercises and solutions For more information browse the book s website at <https://logicasatool.wordpress.com>

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Introductory Discrete Mathematics Dr. Dharendra Kumar Shukla,Dr. Manoj Sharma,2024-03-23 Introductory Discrete Mathematics provides a thorough and understandable introduction to the basic ideas and methods of discrete mathematics It is an invaluable resource for students instructors and professionals looking to establish a solid foundation in ideas critical to subjects such as computer science engineering cryptography and operations research The book is well organized beginning with an investigation of fundamental concepts like as sets logic and proving

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From Equations to Algorithms: Mathematics Essentials with Python Umar Ghoni,2024-11-02 Mathematics and programming are two foundational pillars in the digital era we live in today This book From Equations to Algorithms Mathematics Essentials with Python is designed to help you understand the essence of mathematics in the world of programming and explore how mathematical concepts can be translated into effective algorithms The aim is to build a strong foundation in mathematics while offering practical guidance on applying these concepts through Python programming This book merges core mathematical principles with modern programming techniques Each chapter delves into one or more key mathematical concepts frequently used in data analysis machine learning and optimization algorithms from basic equations and set theory to linear algebra and optimization Using Python readers will learn how these concepts can be translated into functional code ultimately providing real world utility for various technology driven projects This practical approach makes the book suitable not only for beginners looking to build a fundamental understanding of mathematics and

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Discrete Mathematics L. Lovász, J. Pelikán, K. Vesztergombi, 2003-01-27 Aimed at undergraduate mathematics and computer science students this book is an excellent introduction to a lot of problems of discrete mathematics It discusses a number of selected results and methods mostly from areas of combinatorics and graph theory and it uses proofs and problem solving to help students understand the solutions to problems Numerous examples figures and exercises are spread throughout the book

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Discrete Mathematics and Combinatorics T. Sengadir, 2009-09 Discrete Mathematics and Combinatorics provides a concise and practical introduction to the core components of discrete mathematics featuring a balanced mix of basic theories and applications The book covers both fundamental concepts such as sets and logic as well as advanced topics such as graph theory and Turing machines The example driven approach will help readers in understanding and applying the concepts Other pedagogical tools illustrations practice questions and suggested reading facilitate learning and mastering the subject

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