

A First Course In Graph Theory Dover Publications

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an introductory text in graph theory this treatment covers primary techniques and includes both algorithmic and theoretical problems algorithms are presented with a minimum of advanced data structures and programming details this thoroughly corrected 1988 edition provides insights to computer scientists as well as mathematicians studying topology algebra and matrix theory reprint of the benjamin cummings publishing company menlo park california 1988 edition

highly useful text studies logarithmic measures of information and their application to testing statistical hypotheses includes numerous worked examples and problems references glossary appendix 1968 2nd revised edition

undergraduate text uses combinatorial approach to accommodate both math majors and liberal arts students covers the basics of number theory offers an outstanding introduction to partitions plus chapters on multiplicativity divisibility quadratic congruences additivity and more

covering the main fields of mathematics this handbook focuses on the methods used for obtaining solutions of various classes of mathematical equations that underlie the mathematical modeling of numerous phenomena and processes in science and technology the authors describe formulas methods equations and solutions that are frequently used in scientific and engineering applications and present classical as well as newer solution methods for various mathematical equations the book supplies numerous examples graphs figures and diagrams and contains many results in tabular form including finite sums and series and exact solutions of differential integral and functional equations

explores sets and relations the natural number sequence and its generalization extension of natural numbers to real numbers logic informal axiomatic mathematics boolean algebras informal axiomatic set theory several algebraic theories and 1st order theories

aimed at the mathematically traumatized this text offers nontechnical coverage of graph theory with exercises discusses planar graphs euler s formula platonic graphs coloring the genus of a graph euler walks hamilton walks more 1976 edition

a concise handbook of mathematics physics and engineering sciences takes a practical approach to the basic notions formulas equations problems theorems methods and laws that most frequently occur in scientific and engineering applications and university education the authors pay special attention to issues that many engineers and students

this fascinating newly revised edition offers an overview of game theory plus lucid coverage of two person zero sum game with equilibrium points general two person zero sum game utility theory and other topics

this book presents a comprehensive account of bose einstein condensation bec a fundamental phenomenon in quantum physics that reveals the collective behavior of bosonic systems at ultracold temperatures bridging theoretical models with experimental developments and applied perspectives the book is structured to guide readers from foundational principles to advanced topics in the physics of quantum

fluids it is intended for researchers and graduate students in theoretical physics particularly in condensed matter and ultracold atomic systems topics include the distinction between quantum gases and liquids the role of the chemical potential in ultracold systems and the historical and theoretical development of interacting bose gases since the early work of bogoliubov the limitations of bogoliubov theory particularly its applicability to weakly interacting systems and neglect of finite temperature effects are discussed along with recent advances such as the lee huang yang lhy correction and the emergence of quantum droplets in two component bose mixtures the book introduces field theoretical methods for many body systems covering spontaneous symmetry breaking green functions matsubara formalism and path integrals a central focus is the application of optimized perturbation theory opt also known as the variational gaussian approximation or linear delta expansion to atomic becs and quantum magnets triplons theoretical developments are complemented by a brief overview of experimental methods

introductory treatment emphasizes fundamentals covering rudiments arbitrary sets and their cardinal numbers ordered sets and their ordered types and well ordered sets and their ordinal numbers exceptionally well written school science and mathematics

thought provoking and accessible in approach this updated and expanded second edition of the a course on group theory dover books on mathematics provides a user friendly introduction to the subject taking a clear structural framework it guides the reader through the subject s core elements a flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts this succinct and enlightening overview is a required reading for advanced graduate level students we hope you find this book useful in shaping your future career feel free to send us your enquiries related to our publications to info risepress pw rise press

here is a clear well organized coverage of the most standard theorems including isomorphism theorems transformations and subgroups direct sums abelian groups and more this undergraduate level text features more than 500 exercises

this book is intended for a graduate course in complex analysis where the main focus is the theory of complex valued functions of a single complex variable this theory is a prerequisite for the study of many areas of mathematics including the theory of several finitely and infinitely many complex variables hyperbolic geometry two and three manifolds and number theory complex analysis has connections and applications to many other subjects in mathematics and to other sciences thus this material will also be of interest to computer scientists physicists and engineers the book covers most if not all of the material contained in lipman bers s courses on first year

complex analysis in addition topics of current interest such as zeros of holomorphic functions and the connection between hyperbolic geometry and complex analysis are explored in addition to many new exercises this second edition introduces a variety of new and interesting topics new features include a section on bers s theorem on isomorphisms between rings of holomorphic functions on plane domains necessary and sufficient conditions for the existence of a bounded analytic function on the disc with prescribed zeros sections on subharmonic functions and perron s principle and a section on the ring of holomorphic functions on a plane domain there are three new appendices the first is a contribution by ranjan roy on the history of complex analysis the second contains background material on exterior differential calculus and the third appendix includes an alternate approach to the cauchy theory

why learn set theory this book provides the answer it is interesting and also useful taking a new approach and looking from a fresh perspective the discussion flows in a friendly and transparent way supplemented with a lot of examples and figures this makes the theory easily comprehensible the proofs get vivid and visual enveloped with interesting applications for students in applied math physics and engineering given the theory and the applications the book could serve as a textbook in four undergraduate math courses introduction to set theory and its application chaos theory and stability a geometrical point of view functional analysis han banach theory and cryptography with quantum computing it teaches set theory from the basics including the axiom of choice the well ordering theorem and zorn s lemma furthermore it uses cantor s set to introduce chaos theory from a geometrical point of view moreover it introduces the binomial formula and other related formulas and uses them in quantum statistical mechanics and finally it uses zorn s lemma in functional analysis general relativity and quantum mechanics there are also practical applications in cryptography error correction quantum computing and programming

this unusually clear and interesting classic offers a thorough and reliable treatment of an important branch of higher analysis the work covers real numbers and sequences foundations of the theory of infinite series and development of the theory series of valuable terms euler s summation formula asymptotic expansions and other topics exercises throughout ideal for self study

this exploration of combinatorics and knot theory is geared toward advanced undergraduates and graduate students the author louis h kauffman is a professor in the department of mathematics statistics and computer science at the university of illinois at chicago kauffman draws upon his work as a topologist to illustrate the relationships between knot theory and statistical mechanics quantum theory and algebra as well as the role of knot theory in combinatorics featured topics include state trails and the clock theorem state polynomials and the duality conjecture knots

and links axiomatic link calculations spanning surfaces the genus of alternative links and ribbon knots and the arf invariant key concepts are related in easy to remember terms and numerous helpful diagrams appear throughout the text the author has provided a new supplement entitled remarks on formal knot theory as well as his article new invariants in the theory of knots first published in the american mathematical monthly march 1988

complex variables and applications 9e will serve just as the earlier editions did as a textbook for an introductory course in the theory and application of functions of a complex variable this new edition preserves the basic content and style of the earlier editions the text is designed to develop the theory that is prominent in applications of the subject you will find a special emphasis given to the application of residues and conformal mappings to accommodate the different calculus backgrounds of students footnotes are given with references to other texts that contain proofs and discussions of the more delicate results in advanced calculus improvements in the text include extended explanations of theorems greater detail in arguments and the separation of topics into their own sections

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