

Schaum Number Theory

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the theory of abstract groups comes into play in an astounding number of seemingly unconnected areas like crystallography and quantum mechanics geometry and topology analysis and algebra physics chemistry and even biology readers need only know high school mathematics much of which is reviewed here to grasp this important subject hundreds of problems with detailed solutions illustrate the text making important points easy to understand and remember

more than 225 000 students study set theory every year this is an ideal supplementary study guide for all textbooks on the subject or it can be used as a complete self study course it makes math clear to liberal arts majors and teaches effective problem solving with 530 fully solved example problems illustrated

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this two volume set on mathematical principles of the internet provides a comprehensive overview of the mathematical principles of internet engineering the books do not aim to provide all of the mathematical foundations upon which the internet is based instead they cover a partial panorama and the key principles volume 1 explores internet engineering while the supporting mathematics is covered in volume 2 the chapters on mathematics complement those on the engineering episodes and an effort has been made to make this work succinct yet self contained elements of information theory algebraic coding theory cryptography internet traffic dynamics and control of internet congestion and queueing theory are discussed in addition stochastic networks graph theoretic algorithms application of game theory to the internet internet economics data mining and knowledge

discovery and quantum computation communication and cryptography are also discussed in order to study the structure and function of the internet only a basic knowledge of number theory abstract algebra matrices and determinants graph theory geometry analysis optimization theory probability theory and stochastic processes is required these mathematical disciplines are defined and developed in the books to the extent that is needed to develop and justify their application to internet engineering

the development of algebraic geometry over groups geometric group theory and group based cryptography has led to there being a tremendous recent interest in infinite group theory this volume presents a good collection of papers detailing areas of current interest

the textbook introduction to wavelet transforms provides basics of wavelet transforms in a self contained manner applications of wavelet transform theory permeate our daily lives therefore it is imperative to have a strong foundation for this subject features no prior knowledge of the subject is assumed sufficient mathematical background is provided to complete the discussion of different topics different topics have been properly segmented for easy learning this makes the textbook pedagogical and unique notation is generally introduced in the definitions relatively easy consequences of the definitions are listed as observations and important results are stated as theorems examples are provided for clarity and to enhance reader s understanding of the subject each chapter also has a problem section a majority of the problems are provided with sufficient hints the textbook can be used either in an upper level undergraduate or first year graduate class in electrical engineering or computer science or applied mathematics it can also be used by professionals and researchers in the field who would like a quick review of the basics of the subject about the author nirdosh bhatnagar works in both academia and industry in silicon valley california he is also the author of a comprehensive two volume work mathematical principles of the internet published by the crc press in the year 2019 nirdosh earned m s in operations research and m s and ph d in electrical engineering all from stanford university stanford california

detailed review of optimization from first principles supported by rigorous math and

computer science explanations and various learning aids supported by rigorous math and computer science foundations combinatorial and algorithmic mathematics from foundation to optimization provides a from scratch understanding to the field of optimization discussing 70 algorithms with roughly 220 illustrative examples 160 nontrivial end of chapter exercises with complete solutions to ensure readers can apply appropriate theories principles and concepts when required and matlab codes that solve some specific problems this book helps readers to develop mathematical maturity including skills such as handling increasingly abstract ideas recognizing mathematical patterns and generalizing from specific examples to broad concepts starting from first principles of mathematical logic set theoretic structures and analytic and algebraic structures this book covers both combinatorics and algorithms in separate sections then brings the material together in a final section on optimization this book focuses on topics essential for anyone wanting to develop and apply their understanding of optimization to areas such as data structures algorithms artificial intelligence machine learning data science computer systems networks and computer security combinatorial and algorithmic mathematics includes discussion on propositional logic and predicate logic set theoretic structures such as sets relations and functions and basic analytic and algebraic structures such as sequences series subspaces convex structures and polyhedra recurrence solving techniques counting methods permutations combinations arrangements of objects and sets and graph basics and properties asymptotic notations techniques for analyzing algorithms and computational complexity of various algorithms linear optimization and its geometry and duality simplex and non simplex algorithms for linear optimization second order cone programming and semidefinite programming combinatorial and algorithmic mathematics is an ideal textbook resource on the subject for students studying discrete structures combinatorics algorithms and optimization it also caters to scientists across diverse disciplines that incorporate algorithms and academics and researchers who wish to better understand some modern optimization methodologies

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a comprehensive guide to understanding key concepts in abstract algebra with over 450 solved problems

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