Review: This is the second edition of this classic text on information theory. There are two main improvements to the previous edition. First of all, John Prendiville and Einar Brodsky have incorporated the results of earlier works in the series, such as "On the Regularity of J". It is a famous problem in computational complexity theory due to Micali and Vazirani. Even though the current standard approach to this problem is through the use of randomness extraction, with the assumption that the adversary is omniscient, the authors avoid this technique and instead give an elegant proof of the result with elegant probabilistic arguments. The second improvement, which is of a purely mathematical nature, is the introduction of the concept of a sub-covering. One of the big mysteries of information theory is to prove the existence of a sub-covering. That was a problem that had been open for many years. More info. The book is divided into four sections, each of which is partitioned into numerous sections. The first section begins with basic concepts in set theory such as classes, relations, the power set, the ordinal numbers, functions, and functions with codomain. The next section starts with set theory and then moves on to define monoids and semigroups, groups, rings, algebras, modules, fields, and measure theory. The next section deals with logic and then it moves on to the basics of probability theory, commutative algebra, number theory, and algebraic number theory. The last section deals with the implementation of the theory. This book presents all the relevant concepts in a clear and straight to-the-point manner that students will undoubtedly favor. The authors waste no time and quickly set out to teach readers in a brilliantly written and warmly engaging manner. Within its 354 pages, students will find unambiguous explanations on a range of combinatorial and graph theory topics such as Ramsey numbers, Cayleys tree-count theorem, inclusion-exclusion, vertex coloring, and elementary combinations to just name a few. The second edition also contains new material not previously included in the first, such as extended information on Polya theory, stable marriage problems, and Eulerian trails. More info.

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i'm an ntt rtpc assistant professor of mathematics at the university of southern california (usc) in los angeles working with greta panova. from fall 2018 to spring 2021, i was a stefan e. warshawski visiting assistant professor at the university of california, san diego (ucsd) under the mentorship of brendon rhoades. i graduated from the university of washington in june 2018 with a phd in mathematics. my doctoral advisor was sara billey. my phd thesis was on major index statistics: cyclic sieving, branching rules, and asymptotics. review: this third edition of a widely esteemed favorite has been upgraded to include the latest modern scientific computing methods as well as two completely new chapters. the book is still written and presented in the same practical an easy to read style that the previous versions were known for. the authors diligently treat the old

familiar methods with passion while tactfully intertwining them with newer and equally important more contemporary ones. the exceptionally written c++ code will help readers incorporate and test the algorithmic solutions in their own environments for further learning. however there are strict licensing rules to pay attention to. more info. review: this seventh edition of contemporary abstract algebra covers the basics of abstract algebra with clarity and a rarely seen brightness. opting for readability over the rigor many of its contemporaries embrace, this textbook provides an excellent starting point for any student looking to learn and understand the subject. gallians writing is inviting and comprehensive, the proofs are rock-solid, and his overall handling of the topic and the reader is gentle something

beginners will be grateful for. abundantly filled with exercises, well chosen examples, and even biographies on notable mathematicians, this book makes the perfect companion for both students and teaching assistants. more info. 5ec8ef588b