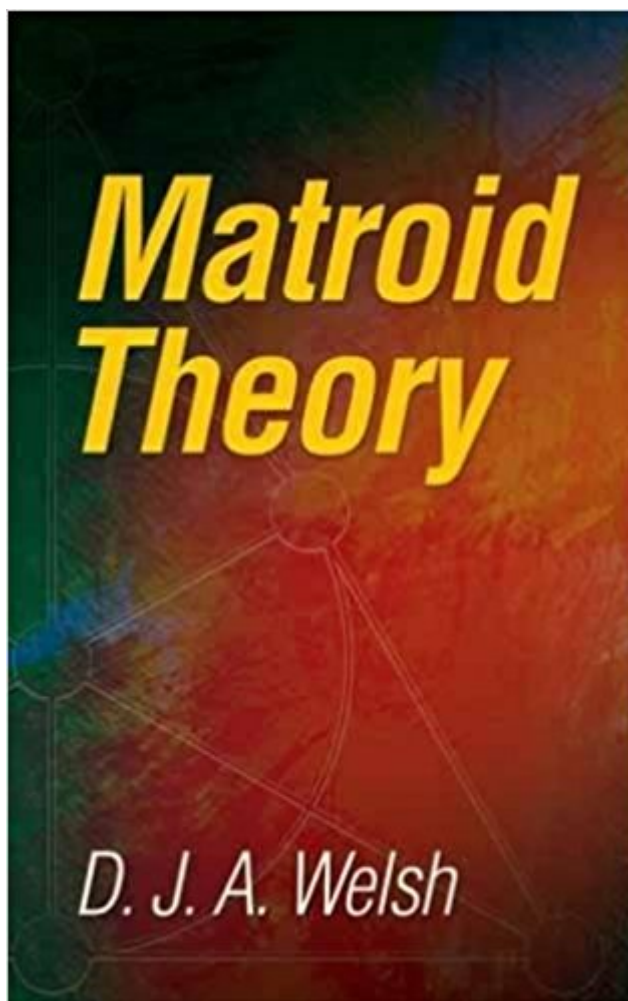The book was found

Matroid Theory (Dover Books On Mathematics)

Synopsis

The theory of matroids connects disparate branches of combinatorial theory and algebra such as graph and lattice theory, combinatorial optimization, and linear algebra. Aimed at advanced undergraduate and graduate students, this text is one of the earliest substantial works on matroid theory. Its author, D. J. A. Welsh,Ã Â Professor of Mathematics at Oxford University,Ã Â has exercised a profound influence over the theory's development.The first half of the text describes standard examples and investigation results, using elementary proofs to develop basic matroid properties and referring readers to the literature for more complex proofs. The second half advances to a more sophisticated treatment, addressing a variety of research topics. Praised by the Bulletin of the American Mathematical Society as "a useful resource for both the novice and the expert," this text features numerous helpful exercises.

Book Information

Series: Dover Books on Mathematics

Paperback: 448 pages

Publisher: Dover Publications (June 17, 2010)

Language: English

ISBN-10: 0486474399

ISBN-13: 978-0486474397

Product Dimensions: 5.3 x 0.9 x 8.4 inches

Shipping Weight: 1 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars   1 customer review

Best Sellers Rank: #1,056,795 in Books (See Top 100 in Books)   #116 inÃ Â Books > Science & Math > Mathematics > Pure Mathematics > Set Theory   #220 inÃ Â Books > Science & Math > Mathematics > Pure Mathematics > Combinatorics   #11032 inÃ Â Books > Textbooks > Science & Mathematics > Mathematics

Customer Reviews

After a long period of being out of print, Welsh's classic text is now available again in a very affordable Dover edition. This is great news, not only for specialists in matroid theory but also for researchers in graph theory, combinatorial optimization, and combinatorial differentiable geometry, all of which use matroids.Those contemplating buying this book may want to know how it differs from other texts on the subject. The closest book is Oxley's. Oxley himself explains the difference in his introduction: "[Welsh's book] appeared during my second year at Oxford and it has been my

constant companion ever since. When I contemplated writing this book, the first question I had to answer was how should it differ from Welsh's book. This book attempts to blend Welsh's very graph-theoretic approach to matroids with the geometric approach of Rota's school that I learnt from Brylawski. Unfortunately, I cannot emulate Welsh's feat of providing, in a single volume, a complete survey of the current state of knowledge in matroid theory; the subject has grown too much. Therefore I have had to be selective. While the basic topics virtually select themselves, the more advanced topics covered here reflect my own research interests."While there is some overlap between the two books, Welsh's book contains a lot of material not available elsewhere. Two examples that come to mind immediately (because I had reason to look them up recently) are the topics of base-orderability and of strong and weak maps, but there are many others. Welsh's book is indispensable and it is a credit to Dover Press that they recognize its continuing value to this active area of current mathematical research.

Matroid Theory (Dover Books on Mathematics) Matroid Theory (Oxford Graduate Texts in Mathematics) Elementary Number Theory: Second Edition (Dover Books on Mathematics) 2nd (second) Edition by Underwood Dudley published by Dover Publications (2008) READING ORDER: TAMI HOAG: BOOKS LIST OF THE BITTER SEASON, KOVAC/LISKA BOOKS, HENNESSY BOOKS, QUAID HORSES, DOUCET BOOKS, DEER LAKE BOOKS, ELENA ESTES BOOKS, OAK KNOLL BOOKS BY TAMI HOAG Mathematics and the Imagination (Dover Books on Mathematics) One Hundred Problems in Elementary Mathematics (Dover Books on Mathematics) Mathematics for Quantum Mechanics: An Introductory Survey of Operators, Eigenvalues, and Linear Vector Spaces (Dover Books on Mathematics) The Nature and Power of Mathematics (Dover Books on Mathematics) Mathematics for the Nonmathematician (Dover Books on Mathematics) Understanding Infinity: The Mathematics of Infinite Processes (Dover Books on Mathematics) Mathematics and the Physical World (Dover Books on Mathematics) Concepts of Modern Mathematics (Dover Books on Mathematics) Undecidable Theories: Studies in Logic and the Foundation of Mathematics (Dover Books on Mathematics) Mathematics for Operations Research (Dover Books on Mathematics) Introduction to Graph Theory (Dover Books on Mathematics) Graph Theory with Applications to Engineering and Computer Science (Dover Books on Mathematics) Game Theory: A Nontechnical Introduction (Dover Books on Mathematics) Theory of Games and Statistical Decisions (Dover Books on Mathematics) A First Course in Graph Theory (Dover Books on Mathematics) Introductory Graph Theory (Dover Books on Mathematics)

Contact Us

DMCA

Privacy

FAQ & Help