Matroids: A Geometric Introduction (Hardback)

By Gary Gordon, Jennifer McNulty

CAMBRIDGE UNIVERSITY PRESS, United Kingdom, 2012. Hardback. Book Condition: New. 248 x 170 mm. Language: English . Brand New Book ***** Print on Demand *****.Matroid theory is a vibrant area of research that provides a unified way to understand graph theory, linear algebra and combinatorics via finite geometry. This book provides the first comprehensive introduction to the field which will appeal to undergraduate students and to any mathematician interested in the geometric approach to matroids. Written in a friendly, fun-to-read style and developed from the authors own undergraduate courses, the book is ideal for students. Beginning with a basic introduction to matroids, the book quickly familiarizes the reader with the breadth of the subject, and specific examples are used to illustrate the theory and to help students see matroids as more than just generalizations of graphs. Over 300 exercises are included, with many hints and solutions so students can test their understanding of the materials covered. The authors have also included several projects and open-ended research problems for independent study.

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