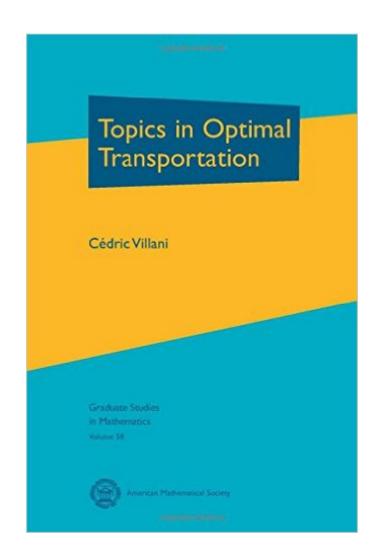
The book was found

Topics In Optimal Transportation (Graduate Studies In Mathematics, Vol. 58)





Synopsis

This is the first comprehensive introduction to the theory of mass transportation with its many--and sometimes unexpected--applications. In a novel approach to the subject, the book both surveys the topic and includes a chapter of problems, making it a particularly useful graduate textbook. In 1781, Gaspard Monge defined the problem of "optimal transportation" (or the transferring of mass with the least possible amount of work), with applications to engineering in mind. In 1942, Leonid Kantorovich applied the newborn machinery of linear programming to Monge's problem, with applications to economics in mind. In 1987, Yann Brenier used optimal transportation to prove a new projection theorem on the set of measure preserving maps, with applications to fluid mechanics in mind. Each of these contributions marked the beginning of a whole mathematical theory, with many unexpected ramifications. Nowadays, the Monge-Kantorovich problem is used and studied by researchers from extremely diverse horizons, including probability theory, functional analysis, isoperimetry, partial differential equations, and even meteorology. Originating from a graduate course, the present volume is intended for graduate students and researchers, covering both theory and applications. Readers are only assumed to be familiar with the basics of measure theory and functional analysis.

Book Information

Series: Graduate Studies in Mathematics (Book 58) Hardcover: 370 pages Publisher: American Mathematical Society (March 1, 2003) Language: English ISBN-10: 082183312X ISBN-13: 978-0821833124 Product Dimensions: 1 x 7 x 10 inches Shipping Weight: 1.9 pounds (View shipping rates and policies) Average Customer Review: Be the first to review this item Best Sellers Rank: #785,315 in Books (See Top 100 in Books) #71 in Books > Science & Math > Mathematics > Applied > Stochastic Modeling #117 in Books > Science & Math > Mathematics > Applied > Linear Programming #7466 in Books > Textbooks > Science & Mathematics >

Download to continue reading...

Topics in Optimal Transportation (Graduate Studies in Mathematics, Vol. 58) Graduate Programs in

Business, Education, Information Studies, Law & Social Work 2017 (Peterson's Graduate Programs in Business, Education, Health, Information Studies, Law and Social Work) Partial Differential Equations (Graduate Studies in Mathematics, Vol. 19) Engineering Economics and Finance for Transportation Infrastructure (Springer Tracts on Transportation and Traffic) Insider's Guide to Graduate Programs in Clinical and Counseling Psychology (Insider's Guide to Graduate Programs) in Clinical & Counseling Psychology) 240 Writing Topics with Sample Essays: How to Write Essays (120 Writing Topics) Carbon Nanotubes: Advanced Topics in the Synthesis, Structure, Properties and Applications (Topics in Applied Physics) The K-Book: An Introduction to Algebraic K-Theory (Graduate Studies in Mathematics) Toric Varieties (Graduate Studies in Mathematics) Classical Groups and Geometric Algebra (Graduate Studies in Mathematics) A Course in Minimal Surfaces (Graduate Studies in Mathematics) An Epsilon of Room Real Analysis: Pages from Year Three of a Mathematical Blog (Graduate Studies in Mathematics) Fourier Analysis (Graduate Studies in Mathematics) Algebra: Chapter 0 (Graduate Studies in Mathematics) Number Theory: Algebraic Numbers and Functions (Graduate Studies in Mathematics) MASON JAR RECIPES BOOK SET 5 book in 1: Meals in Jars (vol.1); Salads in Jars (Vol. 2); Desserts in Jars (Vol. 3); Breakfasts in Jars (Vol. 4); Gifts in Jars (Vol. 5): Easy Mason Jar Recipe Cookbooks Functions of One Complex Variable II (Graduate Texts in Mathematics, Vol. 159) Introduction to Smooth Manifolds (Graduate Texts in Mathematics, Vol. 218) Differential Geometry: Cartan's Generalization of Klein's Erlangen Program (Graduate Texts in Mathematics, Vol. 166) The Symmetric Group: Representations, Combinatorial Algorithms, and Symmetric Functions (Graduate Texts in Mathematics, Vol. 203)

<u>Dmca</u>