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Annotation This graduate textbook reviews results about the existence and regularity of the optimal mass transportation problem, introducing such topics as displacement interpolation, its applications to functional inequalities with geometric content, the Monge-Kantorovich problem, and a differential formulation of the transportation problem inspired by fluid mechanics.

### Topics in Optimal Transportation by Cédric Villani

TOPICS IN OPTIMAL TRANSPORTATION (Graduate Studies in Mathematics 58) By CDRIC VILLANI: 370 pp., US\$59.00, ISBN 0-8218-3312-X (American Mathematical Society, Providence, RI, 2003).

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Chapter 8. A Differential Point of View on Optimal Transportation 237 8.1. A differential formulation of optimal transportation 238 8.2. Differential calculus 250 8.3. Monge-Kantorovich induced dynamics 251 8.4. Time-discretization 256 8.5. Differentiability of the quadratic Wasserstein distance 262 8.6. Non-quadratic costs 266 Chapter 9.

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### Topics in Optimal Transportation page Cover1

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### MAT-280: Optimal Transport Theory and Applications Winter ...

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### 1 Introduction - People

The Metric Side of Optimal Transportation --Ch. 8. A Differential Point of View on Optimal Transportation --Ch. 9. Entropy Production and Transportation Inequalities --Ch. 10. Problems --Table of Short Statements. Series Title: Graduate studies in mathematics, v. 58. Responsibility: Cédric Villani. More information: bvbr.bib-bvb.de

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