

1. Record Nr.	UNINA9910300257403321
Autore	Santambrogio Filippo
Titolo	Optimal Transport for Applied Mathematicians : Calculus of Variations, PDEs, and Modeling / / by Filippo Santambrogio
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Birkhäuser, , 2015
ISBN	3-319-20828-4
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (XXVII, 353 p. 30 illus., 19 illus. in color.)
Collana	Progress in Nonlinear Differential Equations and Their Applications, , 1421-1750 ; ; 87
Disciplina	519.6
Soggetti	Calculus of variations Differential equations Differential equations, Partial Measure theory Calculus of Variations and Optimal Control; Optimization Ordinary Differential Equations Partial Differential Equations Measure and Integration
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Preface -- Primal and Dual Problems -- One-Dimensional Issues -- L^1 and L^∞ Theory -- Minimal Flows -- Wasserstein Spaces -- Numerical Methods -- Functionals over Probabilities -- Gradient Flows -- Exercises -- References -- Index. .
Sommario/riassunto	This monograph presents a rigorous mathematical introduction to optimal transport as a variational problem, its use in modeling various phenomena, and its connections with partial differential equations. Its main goal is to provide the reader with the techniques necessary to understand the current research in optimal transport and the tools which are most useful for its applications. Full proofs are used to illustrate mathematical concepts and each chapter includes a section that discusses applications of optimal transport to various areas, such as economics, finance, potential games, image processing and fluid dynamics. Several topics are covered that have never been previously in

books on this subject, such as the Knothe transport, the properties of functionals on measures, the Dacorogna-Moser flow, the formulation through minimal flows with prescribed divergence formulation, the case of the supremal cost, and the most classical numerical methods. Graduate students and researchers in both pure and applied mathematics interested in the problems and applications of optimal transport will find this to be an invaluable resource.

2. Record Nr.	UNINA9911033878003321
Autore	Boutan, Edmond
Titolo	Le diamant / par M. E. Boutan
Pubbl/distr/stampa	Paris, : V.ve Ch. Dunod, 1886
Descrizione fisica	323 p., XVII c. di tav. : ill. ; 24 cm
Disciplina	549
Locazione	NAP14
Collocazione	M 2 VII 14
Lingua di pubblicazione	Francese
Formato	Materiale a stampa
Livello bibliografico	Monografia