

1. Record Nr.	UNINA9910300248503321
Autore	Adams David
Titolo	Morrey Spaces / / by David Adams
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Birkhäuser, , 2015
ISBN	3-319-26681-0
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (131 p.)
Collana	Lecture Notes in Applied and Numerical Harmonic Analysis, , 2512-6482
Disciplina	515.2433
Soggetti	Harmonic analysis Differential equations, Partial Functional analysis Operator theory Abstract Harmonic Analysis Partial Differential Equations Functional Analysis Operator Theory
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Introduction -- Function Spaces -- Hausdorff Capacity -- Choquet Integrals -- Duality for Morrey Spaces -- Maximal Operators and Morrey Spaces -- Potential Operators on Morrey Spaces -- Singular Integrals on Morrey Spaces -- Morrey-Sobolev Capacities -- Traces of Morrey Potentials -- Interpolation of Morrey Spaces -- Commutators of Morrey Potentials -- Mock Morrey Spaces -- Morrey-Besov Spaces and Besov Capacities -- Morrey Potentials and PDE I -- Morrey Potentials and PDE II -- Morrey Spaces on Complete Riemannian Manifolds.
Sommario/riassunto	In this set of lecture notes, the author includes some of the latest research on the theory of Morrey Spaces associated with Harmonic Analysis. There are three main claims concerning these spaces that are covered: determining the integrability classes of the trace of Riesz potentials of an arbitrary Morrey function; determining the dimensions of singular sets of weak solutions of PDE (e.g. The Meyers-Elcart

System); and determining whether there are any “full” interpolation results for linear operators between Morrey spaces. This book will serve as a useful reference to graduate students and researchers interested in Potential Theory, Harmonic Analysis, PDE, and/or Morrey Space Theory.
