

1. Record Nr.	UNINA9910819779203321
Autore	Boccardo L (Lucio)
Titolo	Elliptic partial differential equations : existence and regularity of distributional solutions // Lucio Boccardo, Gisella Croce
Pubbl/distr/stampa	Boston ; ; Berlin : , : De Gruyter Mouton, , [2014] ©2014
ISBN	3-11-031542-4
Descrizione fisica	1 online resource (204 p.)
Collana	De Gruyter Studies in Mathematics ; ; 55
Classificazione	SK 560
Altri autori (Persone)	CroceGisella
Disciplina	515/.3533
Soggetti	Differential equations, Elliptic Differential equations, Partial
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 and index.
Nota di contenuto	Front matter -- Contents -- Notations -- 1. Introduction -- Part I -- 2. Some fixed point theorems -- 3. Preliminaries of real analysis -- 4. Linear and semilinear elliptic equations -- 5. Nonlinear elliptic equations -- 6. Summability of the solutions -- 7. H2 regularity for linear problems -- 8. Spectral analysis for linear operators -- 9. Calculus of variations and Euler's equation -- Part II -- 10. Natural growth problems -- 11. Problems with low summable sources -- 12. Uniqueness -- 13. A problem with polynomial growth -- 14. A problem with degenerate coercivity -- Bibliography -- Index
Sommario/riassunto	Elliptic partial differential equations is one of the main and most active areas in mathematics. This book is devoted to the study of linear and nonlinear elliptic problems in divergence form, with the aim of providing classical results, as well as more recent developments about distributional solutions. For this reason this monograph is addressed to master's students, PhD students and anyone who wants to begin research in this mathematical field.