

1. Record Nr.	UNINA9910300144003321
Titolo	Topics in fixed point theory // Saleh Almezal, Qamrul Hasan Ansari, Mohamed Amine Khamsi, editors
Pubbl/distr/stampa	Cham, Switzerland : , : Springer, , 2014
ISBN	3-319-01586-9
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (xi, 304 pages) : illustrations
Collana	Gale eBooks
Disciplina	515.7 515.7248 515/.7248
Soggetti	Fixed point 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 and index.
Nota di contenuto	1 Introduction to Metric Fixed Point Theory. M.A. Khamsi -- 2 Banach Contraction Principle and its Generalizations. Abdul Latif -- 3 Ekeland's Variational Principle and Its Extensions with Applications. Qamrul Hasan Ansari -- 4 Fixed Point Theory in Hyperconvex Metric Spaces. Rafael Espínola and Aurora Fernández-León.- 5 An Introduction to Fixed Point Theory in Modular Function Spaces. W. M. Kozłowski.- 6 Fixed Point Theory in Ordered Sets from the Metric Point of View. M. Z. Abu-Sbeih and M. A. Khamsi.- 7 Some Fundamental Topological Fixed Point Theorems for Set-Valued Maps. Hichem Ben-El-Mechaiekh.- 8 Some Iterative Methods for Fixed Point Problems. Q. H. Ansari and D. R. Sahu -- Index.
Sommario/riassunto	The purpose of this contributed volume is to provide a primary resource for anyone interested in fixed point theory with a metric flavor. The book presents information for those wishing to find results that might apply to their own work and for those wishing to obtain a deeper understanding of the theory. The book should be of interest to a wide range of researchers in mathematical analysis as well as to those whose primary interest is the study of fixed point theory and the underlying spaces. The level of exposition is directed to a wide audience, including students and established researchers. Key topics covered include Banach contraction theorem, hyperconvex metric spaces, modular function spaces, fixed point theory in ordered sets,

topological fixed point theory for set-valued maps, coincidence theorems, Lefschetz and Nielsen theories, systems of nonlinear inequalities, iterative methods for fixed point problems, and the Ekeland's variational principle.

---