

1. Record Nr.	UNISA996466476703316
Titolo	Quasiconformal space mappings : a collection of surveys 1960-1990 / / Matti Vuorinen, editor
Pubbl/distr/stampa	Berlin ; ; Heidelberg : , : Springer-Verlag, , [1992] ©1992
ISBN	3-540-47061-1
Edizione	[1st ed. 1992.]
Descrizione fisica	1 online resource (X, 150 p.)
Collana	Lecture Notes in Mathematics ; ; Volume 1508
Disciplina	514.74
Soggetti	Global analysis (Mathematics) Quasiconformal mappings
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Conformal invariants, quasiconformal maps, and special functions -- Topics in quasiconformal mappings -- L^p -theory of quasiregular mappings -- Partial differential equations and quasiregular mappings -- On functional classes invariant relative to homotheties -- Picard's theorem and defect relation for quasiregular mappings -- Topological properties of quasiregular mappings -- Domains and maps -- The global homeomorphism theorem for space quasiconformal mappings, its development and related open problems.
Sommario/riassunto	This volume is a collection of surveys on function theory in euclidean n -dimensional spaces centered around the theme of quasiconformal space mappings. These surveys cover or are related to several topics including inequalities for conformal invariants and extremal length, distortion theorems, $L(p)$ -theory of quasiconformal maps, nonlinear potential theory, variational calculus, value distribution theory of quasiregular maps, topological properties of discrete open mappings, the action of quasiconformal maps in special classes of domains, and global injectivity theorems. The present volume is the first collection of surveys on Quasiconformal Space Mappings since the origin of the theory in 1960 and this collection provides in compact form access to a wide spectrum of recent results due to well-known specialists. CONTENTS: G.D. Anderson, M.K. Vamanamurthy, M. Vuorinen:

Conformal invariants, quasiconformal maps and special functions.- F. W. Gehring: Topics in quasiconformal mappings.- T. Iwaniec: $L(p)$ -theory of quasiregular mappings.- O. Martio: Partial differential equations and quasiregular mappings.- Yu.G. Reshetnyak: On functional classes invariant relative to homothetics.- S. Rickman: Picard's theorem and defect relation for quasiconformal mappings.- U. Srebro: Topological properties of quasiregular mappings.- J. Väisälä: Domains and maps.- V.A. Zorich: The global homeomorphism theorem for space quasiconformal mappings, its development and related open problems.
