1.

Record Nr.	UNISALENTO991000331679707536
Autore	Astala, Kari
Titolo	Elliptic partial differential equations and quasiconformal mappings in the plane / Kari Astala, Tadeusz Iwaniec, and Gaven Martin
Pubbl/distr/stampa	Princeton ; Oxford : Princeton University Press, c2009
ISBN	9780691137773 0691137773
Descrizione fisica	xvi, 677 p. : ill. ; 24 cm
Collana	Princeton mathematical series, 0079-5194 ; 48
Classificazione	AMS 35J60 LC QA377.A836
Altri autori (Persone)	Iwaniec, Tadeusz Martin, Gaven
Disciplina	515.93
Soggetti	Differential equations, Elliptic Quasiconformal mappings
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references (p. 647-670) and index
Nota di contenuto	Introduction ; A background in conformal geometry ; The foundations of quasiconformal mappings ; Complex potentials ; The measurable Riemann mapping theorem : the existence theory of quasiconformal mappings ; Parameterizing general linear elliptic systems ; The concept of ellipticity ; Solving general nonlinear first-order elliptic systems ; Nonlinear Riemann mapping theorems ; Conformal deformations and Beltrami systems ; A quasilinear Cauchy problem ; Holomorphic motions ; Higher integrability ; L[p]-theory of Beltrami operators ; Schauder estimates for Beltrami operators ; Applications to partial differential equations ; PDEs not of divergence type : Pucci's conjecture ; Quasiconformal methods in impedance tomography : Calderón's problem ; Integral estimates for the Jacobian ; Solving the Beltrami equation : Degenerate elliptic case ; Aspects of the calculus of variations ; Appendix: Elements of Sobolev theory and function spaces