1. Record Nr. UNINA9910785830803321

Autore	Klingenberg Wilhelm <1924-2010.>
Titolo	Riemannian geometry [[electronic resource] /] / Wilhelm P.A. Klingenberg
Pubbl/distr/stampa	Berlin ; ; New York, : W. de Gruyter, 1995
ISBN	3-11-090512-4
Edizione	[2nd rev. ed.]
Descrizione fisica	1 online resource (420 p.)
Collana	De Gruyter Studies in Mathematics ; ; 1
Classificazione	SK 370
Disciplina	516.3/73
Soggetti	Geometry, Riemannian Geometry, Differential
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 (p. [393]-402) and index.
Nota di contenuto	Front matter -- Chapter 1: Foundations. -- 1.0 Review of Differential Calculus and Topology -- 1.1 Differentiable Manifolds -- 1.2 Tensor Bundles -- 1.3 Immersions and Submersions -- 1.4 Vector Fields and Tensor Fields -- 1.5 Covariant Derivation -- 1.6 The Exponential Mapping -- 1.7 Lie Groups -- 1.8 Riemannian Manifolds -- 1.9 Geodesics and Convex Neighborhoods -- 1.10 Isometric Immersions -- 1.11 Riemannian Curvature -- 1.12 Jacobi Fields -- Chapter 2: Curvature and Topology. -- 2.1 Completeness and Cut Locus -- 2.1 Appendix - Orientation -- 2.2 Symmetric Spaces -- 2.3 The Hilbert Manifold of H1-curves -- 2.4 The Loop Space and the Space of Closed Curves -- 2.5 The Second Order Neighborhood of a Critical Point -- 2.5 Appendix - The S1- and the 2-action on AM -- 2.6 Index and Curvature -- 2.6 Appendix - The Injectivity Radius for 1/4-pinched Manifolds -- 2.7 Comparison Theorems for Triangles -- 2.8 The Sphere Theorem -- 2.9 Non-compact Manifolds of Positive Curvature -- Chapter 3: Structure of the Geodesic Flow. -- 3.1 Hamiltonian Systems -- 3.2 Properties of the Geodesic Flow -- 3.3 Stable and Unstable Motions -- 3.4 Geodesics on Surfaces -- 3.5 Geodesics on the Ellipsoid -- 3.6 Closed Geodesies on Spheres -- 3.7 The Theorem of the Three Closed Geodesics -- 3.8 Manifolds of Non-Positive Curvature -- 3.9 The Geodesic Flow on Manifolds of Negative Curvature -- 3.10 The Main Theorem for Surfaces of Genus 0 -- References -- Index
Sommario/riassunto	Riemannian Geometry (Degruyter Studies in Mathematics)