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Wozny, M. J.

This book is about metric spaces of nonpositive curvature in the sense of Busemann, that is, metric spaces whose distance function satisfies a convexity condition.

Wozny, M. J.

Contents:Introduction and Statement of ResultsRepresentation TheoryConnections, Curvature, and Differential GeometryReal Affine GeometryAffine Kähler GeometryRiemannian GeometryComplex Riemannian Geometry Readership: Graduate students, researchers, mathematicians and physicist interested in the study of curvature. We have also given different proofs of various results than those that are given in the literature, to take advantage of the unified treatment of the area given herein. The Godel spacetime is an important cosmological solution of Einstein's field equations of gravitation.

Wozny, M. J.

Curvature decompositions are central to all investigations in this area. In spite of its crucial importance both in theoretical mathematics and in applications, up to now, almost no books have provided a coherent outlook on this emerging field.

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Even though many authors have worked in this area in recent years, many fundamental questions still remain unanswered. Traditionally, Lorentzian geometry has been used as a necessary tool to understand general relativity, as well as to explore new genuine geometric behaviors, far from classical Riemannian techniques. Many studies begin by first working purely algebraically and then later progressing onto the geometric setting and it has been found that many questions in differential geometry can be phrased as problems involving the geometric realization of curvature.

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Methods for solving the Jacobi equation. Advanced geometric modelling for engineering applications: Proceedings of the IFIP WG 5.

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Even though many authors have worked in this area in recent years, many fundamental questions still remain unanswered.

Geometric modeling for product realization : selected and expanded papers from the IFIP TC5/WG5.2 Working Conference on Geometric Medeling, Rensselaerville, NY, U.S.A., 27 September

Sánchez-Rodríguez -- List of participants This book, which focuses on the study of curvature, is an introduction to various aspects of pseudo-Riemannian geometry. International Workshop on Geometric Modelling 6th 1998 Tokyo Japan.

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The authors present numerous results including the Singer—Thorpe decomposition, the Bokan decomposition, the Nikcevic decomposition, the Tricerri—Vanhecke decomposition, the Gray—Hervella decomposition and the De Smedt decomposition.

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