

John M. Lee

Introduction to Riemannian Manifolds

Second Edition



Riemannian Manifolds An Introduction To Curvature

John M. Lee

Riemannian Manifolds An Introduction To Curvature:

Riemannian Manifolds John M. Lee, 2006-04-06 This book is designed as a textbook for a one guarter or one semester graduate course on Riemannian geometry for students who are familiar with topological and differentiable manifolds It focuses on developing an intimate acquaintance with the geometric meaning of curvature In so doing it introduces and demonstrates the uses of all the main technical tools needed for a careful study of Riemannian manifolds The author has selected a set of topics that can reasonably be covered in ten to fifteen weeks instead of making any attempt to provide an encyclopedic treatment of the subject The book begins with a careful treatment of the machinery of metrics connections and geodesics without which one cannot claim to be doing Riemannian geometry. It then introduces the Riemann curvature tensor and quickly moves on to submanifold theory in order to give the curvature tensor a concrete quantitative interpretation From then on all efforts are bent toward proving the four most fundamental theorems relating curvature and topology the Gauss Bonnet theorem expressing the total curvature of a surface in term so fits topological type the Cartan Hadamard theorem restricting the topology of manifolds of nonpositive curvature Bonnet's theorem giving analogous restrictions on manifolds of strictly positive curvature and a special case of the Cartan Ambrose Hicks theorem characterizing manifolds of constant curvature Many other results and techniques might reasonably claim a place in an introductory Riemannian geometry course but could not be included due to time constraints Introduction to Riemannian Manifolds John M. Lee, 2019-01-02 This textbook is designed for a one or two semester graduate course on Riemannian geometry for students who are familiar with topological and differentiable manifolds The second edition has been adapted expanded and aptly retitled from Lee's earlier book Riemannian Manifolds An Introduction to Curvature Numerous exercises and problem sets provide the student with opportunities to practice and develop skills appendices contain a brief review of essential background material While demonstrating the uses of most of the main technical tools needed for a careful study of Riemannian manifolds this text focuses on ensuring that the student develops an intimate acquaintance with the geometric meaning of curvature The reasonably broad coverage begins with a treatment of indispensable tools for working with Riemannian metrics such as connections and geodesics Several topics have been added including an expanded treatment of pseudo Riemannian metrics a more detailed treatment of homogeneous spaces and invariant metrics a completely revamped treatment of comparison theory based on Riccati equations and a handful of new local to global theorems to name just a few highlights Reviews of the first edition Arguments and proofs are written down precisely and clearly The expertise of the author is reflected in many valuable comments and remarks on the recent developments of the subjects Serious readers would have the challenges of solving the exercises and problems The book is probably one of the most easily accessible introductions to Riemannian geometry M C Leung MathReview The book s aim is to develop tools and intuition for studying the central unifying theme in Riemannian geometry which is the notion of curvature and its relation with topology The main ideas of the subject motivated

as in the original papers are introduced here in an intuitive and accessible way The book is an excellent introduction designed for a one semester graduate course containing exercises and problems which encourage students to practice working with the new notions and develop skills for later use By citing suitable references for detailed study the reader is stimulated to inquire into further research C L Bejan zBMATH

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