Riemannian Manifolds: An Introduction to Curvature (Graduate Texts in Mathematics)

By John M. Lee

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This text focuses on developing an intimate acquaintance with the geometric meaning of curvature and thereby introduces and demonstrates all the main technical tools needed for a more advanced course on Riemannian manifolds. It covers proving the four most fundamental theorems relating curvature and topology: the Gauss-Bonnet Theorem, the Cartan-Hadamard Theorem, Bonnet's Theorem, and a special case of the Cartan-Ambrose-Hicks Theorem.

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Review
"This book is very well writen, pleasant to read, with many good illustrations. It deals with the core of the subject, nothing more and nothing less. Simply a recommendation for anyone who wants to teach or learn about the Riemannian geometry."
Nieuw Archief voor Wiskunde, September 2000

About the Author
John M. Lee has been a mathematics professor at the University of Washington in Seattle since 1987. He has written two other popular graduate texts (*Introduction to Smooth Manifolds* and *Introduction to Topological Manifolds*), and an undergraduate text (*Axiomatic Geometry*).

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