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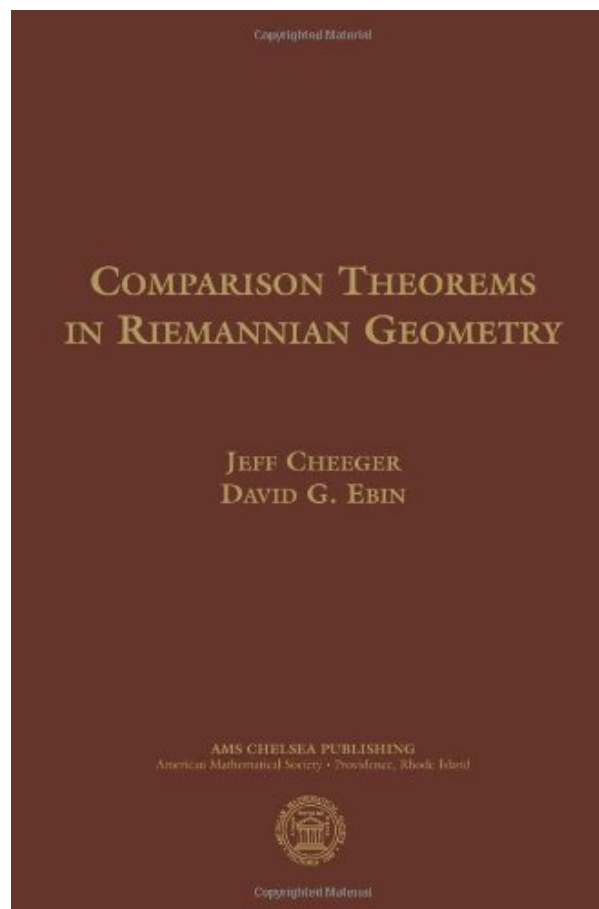
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IN RIEMANNIAN GEOMETRY

JEFF CHEEGER
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The central theme of this book is the interaction between the curvature of a complete Riemannian manifold and its topology and global geometry. The first five chapters are preparatory in nature. They begin with a very concise introduction to Riemannian geometry, followed by an exposition of Toponogov's theorem--the first such treatment in a book in English. Next comes a detailed presentation of homogeneous spaces in which the main goal is to find formulas for their curvature. A quick chapter of Morse theory is followed by one on the injectivity radius. Chapters 6-9 deal with many of the most relevant contributions to the subject in the years 1959 to 1974. These include the pinching (or sphere) theorem, Berger's theorem for symmetric spaces, the differentiable sphere theorem, the structure of complete manifolds of non-negative curvature, and finally, results about the structure of complete manifolds of non-positive curvature. Emphasis is given to the phenomenon of rigidity, namely, the fact that although the conclusions which hold under the assumption of some strict inequality on curvature can fail when the strict inequality on curvature can fail when the strict inequality is relaxed to a weak one, the failure can happen only in a restricted way, which can usually be classified up to isometry. Much of the material, particularly the last four chapters, was essentially state-of-the-art when the book first appeared in 1975. Since then, the subject has exploded, but the material covered in the book still represents an essential prerequisite for anyone who wants to work in the field.

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The book "Comparison Theorems in Riemannian Geometry", by Cheeger and Ebin, is for researchers at the postgraduate, postdoctoral and professional levels. In view of the 1975 vintage, it has great value as a

relatively easy introduction to the research project "geometry implies topology" for Riemannian spaces, but also to better understand the current state of the art in the context of its historical development. More recent summaries, such as the 1994 "Lectures on Differential Geometry" by Schoen and Yau, can be quite overwhelming. It's better to read up on earlier research results first to see the context in which later researchers worked.

The Cheeger/Ebin book is widely cited in later research. So it's an essential reference if you're serious about researching the flavour of differential geometry which seeks to put constraints on topology in terms of given bounds on curvature. The design of the book is well thought out and implemented. There are not many modern books on DG at this level which make so much effort to be comprehensible to the beginner. It even has lots of nice diagrams!

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