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Riemannian Manifolds: An Introduction to Curvature by John M. Lee  
December 1, 2018 Changes or additions made in the past twelve months are dated. • Page 15, Exercise 2.3, part (a): In the first sentence, change “smooth function on  $M_f$ ” to “smooth real-valued function on a neighborhood of  $\text{Min } M_f$ .” • Page 16, first paragraph, Exercise 2.3(b): Change “vector field on  $M_f$  ...

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*riemannian geometry - Lee - Introduction to Topological ...*

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*John M. Lee*

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*Introduction to Riemannian Manifolds, Second Edition*

Our official textbook is John Lee's Introduction to smooth manifolds, 2nd edition. It has all the details spelled out. However, Lee's book does not cover characteristic classes. I will follow other textbook or notes, for example Nicolascu's online note Chapter 8. Warner. Foundations of Differentiable Manifolds and Lie Groups. If you want a concise introduction, try this one. Milnor, Topology ...

*Math 214: Differentiable manifolds [Lecture Notes]*

In so doing, it introduces and demonstrates the uses of all the main technical tools needed for a careful study of Riemannian manifolds. I have 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 ...

*Riemannian Manifolds: An Introduction to Curvature - John ...*

A Riemannian manifold is a differentiable manifold with a Riemannian metric. So what is a Riemannian metric? A Riemannian metric is a positive definite bilinear symmetric form, which induces a positive definite inner product on each tangent space.

*Riemannian and Pseudo-Riemannian Manifolds - Sung Lee*

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