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longer the province of differential geometers alone, smooth manifold technology is now a basic skill that all mathematics students should acquire as early as possible. Over the past century or two, mathematicians have developed a wondrous collection of conceptual machines that enable us to peer ever more deeply into the invis-

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Lee, Introduction to Smooth Manifolds, Change of Coordinates. 2. Boundary of the set of points away from manifold is a hypersurface. 2. Question about proof of the Rank Theorem from Lee's Smooth Manifolds. 4. Every connected orientable smooth manifold has exactly two orientations, Lee Proposition 15.9. 7.

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Introduction to Smooth Manifolds from John Lee is one of the best introduction books I ever read. I read most of this book, except for the appendices at the end and proofs of some corollaries. This book covers a couple of subjects: (*) First the theory of smooth manifolds in general (ch1, 2, 3, 4, 5 and 6), smooth maps, (co)tangent spaces, (co)vector fields and vector bundles.

~~Introduction to Smooth Manifolds by John M. Lee~~

John M. Lee is Professor of Mathematics at the University of Washington in Seattle, where he regularly teaches graduate courses on the topology and geometry of manifolds. He was the recipient of the American Mathematical Society's Centennial Research Fellowship and he is the author of four previous Springer books: the first edition (2003) of Introduction to Smooth Manifolds, the first edition (2000) and second edition (2010) of Introduction to Topological Manifolds, and Riemannian Manifolds ...

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This book is an introductory graduate-level textbook on the theory of smooth manifolds, for students who already have a solid acquaintance with general topology, the fundamental group, and covering spaces, as well as basic undergraduate linear algebra and real analysis. It is a natural sequel to my earlier book on topological manifolds [Lee00].

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