

Introduction To Smooth Manifolds John M Lee

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~~Introduction to Smooth Manifolds | John M. Lee | Springer~~

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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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(Mircea Craioveanu, Zentralblatt MATH, Vol. 1030, 2004) "This text provides an elementary introduction to smooth manifolds which can be understood by junior undergraduates. ... There are 157 illustrations, which bring much visualisation, and the volume contains many examples and easy exercises, as well as almost 300 ' problems ' that are more demanding.

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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.

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~~Mathematics—wj32~~

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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