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

Introduction to Smooth Manifolds Authors. John M. Lee; Series Title Graduate Texts in Mathematics

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for the other charts.” (8/8/16) Page 7, Fig. 1.4: Both occurrences of xishould be xnC1. (12/19/18) Page 9, proof of Theorem 1.15: In the second line of the proof, replace “For each j” with “For each j 0.”.

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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

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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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