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Holder Springer Science+Business Media New  
York eBook ISBN 978-0-387-21752-9 DOI  
10.1007/978-0-387-21752-9 Series ISSN  
0072-5285 Edition Number 1 Number of Pages  
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Introduction to Smooth Manifolds Version 3.0  
by John M. Lee April 18, 2001 Page 4, second  
paragraph after Lemma 1.1: Omit redundant  
\the." Page 11, Example 1.6: In the third  
line above the second equation, change \for  
each j" to \for each i." Page 12, Example  
1.7, line 5: Change \manifold" to \smooth  
manifold."

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(8/8/16) Page 6, just below the last

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displayed equation: Change `'\Ex /to 'nC1Ex` ,  
and in the next line, change `xi` to `xnC1`.  
After “(Fig. 1.4),” insert “with similar  
interpretations for the other charts.”

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WA, USA ISSN 0072-5285 ISBN 978-1-4419-9981-8  
ISBN 978-1-4419-9982-5 (eBook) DOI  
10.1007/978-1-4419-9982-5 Springer New York  
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~~Graduate Texts in Mathematics 218~~

Introduction. This book is an introductory graduate-level textbook on the theory of smooth manifolds. Its goal is to familiarize students with the tools they will need in order to use manifolds in mathematical or scientific research—smooth structures, tangent vectors and covectors, vector bundles, immersed and embedded submanifolds, tensors, differential forms, de Rham cohomology, vector fields, flows, foliations, Lie derivatives, Lie groups, Lie algebras, and more.

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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.

~~Question about the proof of Theorem D.5, Introduction to ...~~

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The title of this book is not 'Differential Geometry,' but 'Introduction to Smooth Manifolds;' a title I think is very appropriate. In this book, you will learn all the essential tools of smooth manifolds but it stops short of embarking in a bona fide study of Differential Geometry; which is the study of manifolds plus some extra structure (be it Riemannian metric, Group or Symplectic structure, etc).

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~~Texts in ...~~

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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Lee is a great text on the subject. It covers similar material to Loring W. Tu's text.

Lee's book is big (~650 pages) but the exposition is clear and the book is filled with understandable examples.

~~reference request — Introductory texts on manifolds ...~~

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



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and real analysis. It is a natural sequel to my earlier book on topological manifolds [Lee00].

## ~~INTRODUCTION TO SMOOTH MANIFOLDS~~

John M. Lee's Introduction to Smooth Manifolds. Click here for my (very incomplete) solutions. Topics: Smooth manifolds. Prerequisites: Algebra, basic analysis in  $\mathbb{R}^n$ , general topology, basic algebraic topology. Great writing as usual, with plenty of examples and diagrams where appropriate. Chapters 6 (Sard's Theorem) and 9 (Integral Curves ...

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In the second section we introduce an additional structure, called a smooth structure, that can be added to a topological manifold to enable us to do calculus.

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Following the basic definitions, we introduce a number of examples of manifolds, so you can have something concrete in mind as you read the general theory.

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Preface to the Second Edition This is a completely revised edition, with more than 700 pages of new material scattered throughout. In keeping with the conventional meaning of chapters and

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