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## **3-Manifolds (Graduate Studies ...**

Introduction to 3-Manifolds is a mathematics book on low-dimensional topology. It was written by Jennifer Schultens and published by the American Mathematical Society in 2014 as volume 151 of their book series Graduate Studies in Mathematics Topics. A manifold is a space whose topology,

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near any of ...

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3-manifold topology ; An introduction to



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3-manifolds by Jennifer Schultens, AMS-GSM series. An introduction to 3-manifolds by Stephan Friedl, available online. Notes on basic 3-manifold topology by Allen Hatcher, available online. Knots and Links (Chapter 9) by Dale Rolfsen, Publish or Perish ; 3-manifold geometry

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**Geometry and Topology of  
3-manifolds, Graduate Center ...**

This is a digestible and excellent introduction to 3-Manifolds for the uninitiated. It's good for self-study and the basis for further exploration into a very rich area of mathematics. 2 people found this helpful

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There are plenty of exercises, and the book has been laboratory tested, so to speak, since it grew out of Schulten's graduate course on 3-manifolds at Emory University, with rather minimal requirements in the way of algebraic topology proper and differential

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geometry, which indicates the level at which the book is pitched.

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students in mathematics and theoretical physics familiar with some elementary algebraic and differential topology, including the fundamental group, basic homology theory, transversality ...

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set and algebraic topology at the early-graduate level, using manifolds as a primary source of examples and motivation. ... The author has ... fulfilled his objective of integrating a study of manifolds into an introductory course in general and algebraic topology.

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## **Manifolds (Graduate Texts in ...**

Professor Lee is the author of three highly acclaimed Springer graduate textbooks : Introduction to Smooth Manifolds, (GTM 218) Introduction to Topological Manifolds (GTM 202), and Riemannian Manifolds (GTM 176).

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It could profitably be used by beginning graduate students who want to undertake a deeper study of specialized applications of smooth manifold theory." (Mircea Craioveanu, Zentralblatt MATH, Vol. 1030, 2004) "This text provides an elementary introduction to smooth manifolds which can be understood by



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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

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or scientific research—smooth structures, tangent vectors and covectors, vector bundles, immersed and embedded submanifolds, tensors, differential forms, de Rham cohomology, vector fields, flows ...

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ferential geometry references I used are the fantastic books by Lee,<sup>3,4</sup> 3 J.M. Lee. Introduction to Smooth Man-ifolds,

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volume 218 of Graduate Texts in  
Mathematics. Springer-Verlag New York,  
2nd edition, 2012 4 J.M. Lee.

Introduction to Riemannian Manifolds,  
volume 176 of Graduate Texts in  
Mathematics. Springer, 2nd edition,  
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## **smooth manifolds**

Introduction to Riemannian Manifolds  
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(Graduate Texts in Mathematics) (v.

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A physicist would say that an  $n$ -dimensional manifold is an object with  $n$  degrees of freedom. Manifolds of dimension 1 are just lines and curves. The simplest example is the real line; other examples are provided by familiar plane curves such as circles, J.M. Lee, Introduction to Topological Manifolds, Graduate Texts in Mathematics 202, 1

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## **Chapter 1 Introduction**

Product Information. 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

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covectors, vector bundles, immersed  
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