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This book grew out of a graduate course on 3-manifolds and is intended for a mathematically experienced audience that is new to low-dimensional topology. The exposition begins with the definition of a manifold, explores possible additional structures on manifolds, discusses the classification of surfaces, introduces key foundational results for 3-manifolds, and provides an overview of knot theory.

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Introduction to 3-manifolds / Jennifer Schultens. pages cm – (Graduate studies in mathematics ; v. 151) Includes bibliographical references and index. ISBN 978-1-4704-1020-9 (alk. paper) 1. Topological manifolds. 2. Manifolds (Mathematics) I. Title. II. Title: Introduction to three-manifolds. QA613.2.S35 2014 514 .34-dc23 2013046541 Copying and reprinting.

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Introduction To 3 Manifolds Graduate Studies In Mathematics

This textbook is designed for a one or two semester graduate course on Riemannian geometry for students who are familiar with topological and differentiable manifolds. The second edition has been adapted, expanded, and aptly retitled from Lee's earlier book, Riemannian Manifolds: An Introduction to Curvature .

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This book is designed as a first-year graduate text on manifold theory, for students who already have a solid acquaintance with undergraduate linear algebra, real analysis, and topology. I have tried to focus on the portions of manifold theory that will be needed by most people who go on to use manifolds in mathematical or scientific research.

Graduate Texts in Mathematics 218

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 ...

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In topology, a branch of mathematics, a topological manifold is a topological space (which may also be a separated space) which locally resembles real n -dimensional space in a sense defined below. Topological manifolds form an important class of topological spaces with applications throughout mathematics. All manifolds are topological manifolds by definition, but many manifolds may be

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Topological manifold - Wikipedia

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Introduction to Smooth Manifolds | John Lee | Springer

What Are Manifolds? 3 Fig. 1.3: Doughnut surface. The only higher-dimensional manifold that we can easily visualize is Euclidean 3-space (or parts of it). But it is not hard to construct subsets of higher-dimensional Euclidean spaces that might reasonably be called manifolds. First, any open subset of \mathbb{R}^n is an n -manifold for obvious reasons. More interesting examples are obtained

Chapter 1 Introduction

Graduate Studies in Mathematics (GSM) is a series of graduate-level textbooks in mathematics published by the American Mathematical Society (AMS). These books elaborate on several theories from notable personas, such as Martin Schechter and Terence Tao, in the mathematical industry. The books in this series are published only in hardcover.

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