

SOLUTIONS TO LEE'S INTRODUCTION TO SMOOTH MANIFOLDS

SFESH

1. TOPOLOGICAL MANIFOLDS

Exercise 1.1. *Show that equivalent definitions of manifolds are obtained if instead of allowing U to be homeomorphic to any open subset of \mathbb{R}^n , we require it to be homeomorphic to an open ball in \mathbb{R}^n , or to \mathbb{R}^n itself.*

Every open ball is homeomorphic to the the open unit ball centred at the origin (we can map any two balls onto each other by linear scaling and a translation, both of which are continuous with continuous inverses). Note that open unit ball is homeomorphic to \mathbb{R}^n itself via the homeomorphism

$$f: \text{int}(\mathbb{B}^n) \rightarrow \mathbb{R}^n, \quad x \mapsto \frac{x}{1 - \|x\|}.$$

Hence, it is enough to show that we obtain an equivalent definition of a topological manifold if we require that U be homeomorphic to an open ball. First, suppose that at every $p \in M$, there is an open neighbourhood U such that $\tilde{U} \subseteq \mathbb{R}^n$ is open and $\phi: U \rightarrow \tilde{U}$ is open. Then $\phi(p) \in B \subseteq \tilde{U}$, where B is some open ball. Then $\phi^{-1}(B)$ is an open subset of M containing p that is homeomorphic to an open ball in \mathbb{R}^n . Conversely, if every point $p \in M$ is contained in a neighbourhood homeomorphic to an open ball in \mathbb{R}^n , then M already satisfies the given definition.

Exercise 1.6. *Show that $\mathbb{R}P^n$ is Hausdorff and second-countable, and is therefore a topological n -manifold.*

Let $[x]$ and $[y]$ be distinct points of $\mathbb{R}P^n$, that is, distinct 1-dimensional subspaces of \mathbb{R}^{n+1} , and let them be spanned by the unit vectors x and y respectively. Since S^n is Hausdorff, it is not hard to see that we can find pairwise disjoint open sets $U, \bar{U}, V, \bar{V} \subseteq S^n$ such that $x \in U, -x \in \bar{U}, y \in V, -y \in \bar{V}$, where $\bar{A} = -A: A \in \mathcal{A}$. Let $\tilde{U} = U \cup \bar{U}$ and $\tilde{V} = V \cup \bar{V}$. Define

$$\phi: \mathbb{R}^n \setminus \{0\} \rightarrow S^n, \quad p \mapsto \frac{p}{\|p\|}.$$

We claim that $U = \pi(\phi^{-1}(\tilde{U}))$ and $V = \pi(\phi^{-1}(\tilde{V}))$ are disjoint and contain $[x]$ and $[y]$ respectively, and that U and V are open. It is clear that $[x] \in U$ and $[y] \in V$. Let $[p] \in U \cap V$. Then $[p] = \pi(u) = \pi(v)$ for some $u \in \phi^{-1}(\tilde{U}), v \in \phi^{-1}(\tilde{V})$. Then $u = \lambda v$ for some $\lambda \in \mathbb{R} \setminus \{0\}$. Hence, $\phi(u) = \pm \phi(v)$. But this implies that $\phi(u) \in \tilde{U} \cap \tilde{V}$, a contradiction. We conclude that $\mathbb{R}P^n$ is Hausdorff.

Let \mathcal{B} be a countable basis for \mathbb{R}^n . We claim that $\pi(\mathcal{B}) = \{\pi(B): B \in \mathcal{B}\}$ is a basis for $\mathbb{R}P^n$. Define $f_t: \mathbb{R}^n \setminus \{0\} \rightarrow \mathbb{R}^n \setminus \{0\}, p \mapsto tp$ for every $t \in \mathbb{R} \setminus \{0\}$. Note that f_t is continuous and has a continuous inverse $f_{1/t}$. Hence, for if U is open, then $f_t(U)$ is also open. We claim that $\pi^{-1}(\pi(U)) = \bigcup_{t \in \mathbb{R} \setminus \{0\}} f_t(U)$ for every open set $U \subseteq \mathbb{R}^n \setminus \{0\}$. Let

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John M. Lee



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Elements of Differential Topology Anant R. Shastri, 2011-03-04 Derived from the author's course on the subject Elements of Differential Topology explores the vast and elegant theories in topology developed by Morse Thom Smale Whitney Milnor and others It begins with differential and integral calculus leads you through the intricacies of manifold theory and concludes with discussions on algebraic topology *Fredholm Operators and Einstein Metrics on Conformally Compact Manifolds* John M. Lee, 2006 Volume 183 number 864 end of volume **Introduction to Smooth Manifolds** John M. Lee, 2003 Author has written several excellent Springer books This book is a sequel to Introduction to Topological Manifolds Careful and illuminating explanations excellent diagrams and exemplary motivation Includes short preliminary sections before each section explaining what is ahead and why *Accelerating Expansion* Gordon Belot, 2023-07-25 Accelerating Expansion explores some of the philosophical implications of modern cosmology focused on the significance that the discovery of the accelerating expansion of the Universe has for our understanding of time geometry and physics The appearance of the cosmological constant in the equations of general relativity allows one to model universes in which space has an inherent tendency towards expansion This constant introduced by Einstein but subsequently abandoned by him returned to centre stage with the discovery of the accelerating expansion This pedagogically oriented essay begins with a study of the most basic and elegant relativistic world that involves a positive cosmological constant de Sitter spacetime It then turns to the relatives of de Sitter spacetime that dominate modern relativistic cosmology Some of the topics considered include the nature of time and simultaneity in de Sitter worlds the sense in which de Sitter spacetime is a powerful dynamical attractor the limited extent to which observation can give us information about the topology of space in a world undergoing accelerated expansion and cosmologists favourite sceptical worry about the reliability of evidence and the possibility of knowledge the problem of Boltzmann brains **Multivariate Data Analysis on Matrix Manifolds** Nickolay Trendafilov, Michele Gallo, 2021-09-15 This graduate level textbook aims to give a unified presentation and solution of several commonly used techniques for multivariate data analysis MDA Unlike similar texts it treats the MDA problems as optimization problems on matrix manifolds defined by the MDA model parameters allowing them to be solved using free optimization software Manopt The book includes numerous in text examples as well as Manopt codes and software guides which can be applied directly or used as templates for solving similar and new problems The first two chapters provide an overview and essential background for studying MDA giving basic information and notations Next it considers several sets of matrices routinely used in MDA as parameter spaces along with their basic topological properties A brief introduction to matrix Riemannian manifolds and optimization methods on them with Manopt complete the MDA prerequisite The remaining chapters study individual MDA techniques in depth The number of exercises complement the main text with additional information and occasionally involve open and or challenging research questions Suitable fields include computational

statistics data analysis data mining and data science as well as theoretical computer science machine learning and optimization It is assumed that the readers have some familiarity with MDA and some experience with matrix analysis computing and optimization Mathematical Reviews ,2005 **Global Formulations of Lagrangian and Hamiltonian Dynamics on Manifolds** Taeyoung Lee,Melvin Leok,N. Harris McClamroch,2017-08-14 This book provides an accessible introduction to the variational formulation of Lagrangian and Hamiltonian mechanics with a novel emphasis on global descriptions of the dynamics which is a significant conceptual departure from more traditional approaches based on the use of local coordinates on the configuration manifold In particular we introduce a general methodology for obtaining globally valid equations of motion on configuration manifolds that are Lie groups homogeneous spaces and embedded manifolds thereby avoiding the difficulties associated with coordinate singularities The material is presented in an approachable fashion by considering concrete configuration manifolds of increasing complexity which then motivates and naturally leads to the more general formulation that follows Understanding of the material is enhanced by numerous in depth examples throughout the book culminating in non trivial applications involving multi body systems This book is written for a general audience of mathematicians engineers and physicists with a basic knowledge of mechanics Some basic background in differential geometry is helpful but not essential as the relevant concepts are introduced in the book thereby making the material accessible to a broad audience and suitable for either self study or as the basis for a graduate course in applied mathematics engineering or physics Physics Briefs ,1993 **Nonlinear Problems with Lack of Compactness** Giovanni Molica Bisci,Patrizia Pucci,2021-02-08 This authoritative book presents recent research results on nonlinear problems with lack of compactness The topics covered include several nonlinear problems in the Euclidean setting as well as variational problems on manifolds The combination of deep techniques in nonlinear analysis with applications to a variety of problems make this work an essential source of information for researchers and graduate students working in analysis and PDE s The American Mathematical Monthly ,1991 **Dissertation Abstracts International** ,2002 **Index to Theses with Abstracts Accepted for Higher Degrees by the Universities of Great Britain and Ireland and the Council for National Academic Awards** ,2005 *The British National Bibliography* Arthur James Wells,2002 Masters Abstracts International ,1994 **Introduction to Smooth Manifolds** John Lee,2012-08-27 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 The approach is as concrete as possible with pictures and intuitive discussions of how one should think geometrically about the abstract concepts while making full use of the powerful tools that modern mathematics has to offer This second edition has been extensively revised and clarified and the topics have been

substantially rearranged The book now introduces the two most important analytic tools the rank theorem and the fundamental theorem on flows much earlier so that they can be used throughout the book A few new topics have been added notably Sard's theorem and transversality a proof that infinitesimal Lie group actions generate global group actions a more thorough study of first order partial differential equations a brief treatment of degree theory for smooth maps between compact manifolds and an introduction to contact structures Prerequisites include a solid acquaintance with general topology the fundamental group and covering spaces as well as basic undergraduate linear algebra and real analysis

Introduction to Smooth Manifolds John M. Lee, 2000 **An Introduction to Smooth Manifolds** Manjusha Majumdar, Arindam Bhattacharyya, 2023-06-01 Targeted to graduate students of mathematics this book discusses major topics like the Lie group in the study of smooth manifolds It is said that mathematics can be learned by solving problems and not only by just reading it To serve this purpose this book contains a sufficient number of examples and exercises after each section in every chapter Some of the exercises are routine ones for the general understanding of topics The book also contains hints to difficult exercises Answers to all exercises are given at the end of each section It also provides proofs of all theorems in a lucid manner The only pre requisites are good working knowledge of point set topology and linear algebra

Smooth Manifolds Mikhail Mikhailovich Postnikov, 1989 **Lectures in Geometry** Mikhail Mikhailovich Postnikov, 1987
A Primer On Smooth Manifolds Luca Vitagliano, 2024-02-27 Differential Geometry is one of the major branches of current Mathematics and it is an unavoidable language in modern Physics The main characters in Differential Geometry are smooth manifolds a class of geometric objects that locally behave like the standard Euclidean space The book provides a first introduction to smooth manifolds aimed at undergraduate students in Mathematics and Physics The only prerequisites are the Linear Algebra and Calculus typically covered in the first two years The presentation is as simple as possible but it does not sacrifice the rigor The lecture notes are divided into 10 chapters with gradually increasing difficulty The first chapters cover basic material while the last ones present more sophisticated topics The definitions propositions and proofs are complemented by examples and exercises The exercises which include part of the proofs are designed to help the reader learn the language of Differential Geometry and develop their problem solving skills in the area The exercises are also aimed at promoting an active learning process Finally the book contains pictures which are useful aids for the visualization of abstract geometric situations The lecture notes can be used by instructors as teaching material in a one semester course on smooth manifolds

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