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Calculus On Manifolds, A Modern Approach to Classical ...
Spivak, Michael (2018) [1965], Calculus on Manifolds: A Modern Approach to Classical Theorems of Advanced Calculus (Mathematics Monograph Series), New York: W. A. Benjamin, Inc. (reprinted by Addison-Wesley (Reading, Mass.) and Westview Press (Boulder, Colo.)), ISBN 978-0-8053-9021-6 [A brief, rigorous, and modern treatment of multivariable calculus, differential forms, and integration on manifolds for advanced undergraduates]

Calculus on Manifolds (book) - Wikipedia
" Calculus on Manifolds " Michael Spivak 1965 1st Edition Paperback W.A. Benjamin. Condition is "Brand New". Shipped with USPS Media Mail.

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Calculus of Manifolds: Michael Spivak: 9781138329393 ...
Calculus On Manifolds A Modern Approach To Classical Theorems Of Advanced Calculus by Michael Spivak Calculus On Manifolds • Click Here Publisher: Westview Press Release date: January 22, 1971 Format: paperback, 160 pages Genres: mathematics, textbooks, calculus, reference, science, physics ISBN: 9780805390216 (0805390219) Language: english Author: Michael Spivak About The Book This little ...

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Calculus On Manifolds 作者 : Michael Spivak 出版社: Westview Press 副标题: A Modern Approach To Classical Theorems Of Advanced Calculus 出版年: 1971-1-22 页数: 160 定价: USD 55.00 装帧: Paperback ISBN: 9780805390216

Calculus On Manifolds (豆瓣)
Michael Spivak Brandeis University Calculus on Manifolds A MODERN APPROACH TO CLASSICAL THEOREMS OF ADVANCED CALCULUS ADDISON-WESLEY PUBLISHING COMPANY The Advanced Book Program Reading, Massachusetts • Menlo Park, California • New York Don Mills, Ontario • Wokingham, England • Amsterdam • Bonn

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Textbook: Calculus on Manifolds by Michael Spivak. Class time:10:25-11:40 MW Hylan 201. Grading: Homework %30, Midterm %30, and Final %40. Teaching assistants:Dustin Kasser (Dustin Kasser (dkasser@u.rochester.edu) and Emily Windes, 1103 Hylan, (emilywindes@rochester.edu) Recitation sessions: Monday, Hylan 1106A. Review sessions:In addition to office hours, evening review sessions will be offered several times during the semester.

Math 174-Honors Multivariable Calculus ... - UR Mathematics
Spivak acknowledges in the preface that others might consider this textbook to be an introduction to mathematical analysis rather than a calculus book. Another of his well-known textbooks is Calculus on Manifolds (W. A. Benjamin Inc., 1965; Addison-Wesley, revised edition, 1968), a concise (146 pp.) but rigorous and modern treatment of multivariable calculus accessible to advanced undergraduates.

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Spivak's celebrated textbook is widely held as one of the finest introductions to mathematical analysis. His aim is to present calculus as the first real encounter with mathematics: it is the place to learn how logical reasoning combined with fundamental concepts can be developed into a rigorous mathematical theory rather than a bunch of tools and techniques learned by rot

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Calculus On Manifolds: A Modern Approach To Classical Theorems Of Advanced Calculus May 4, 2018 by Michael Spivak (71)

This little book is especially concerned with those portions of " advanced calculus " in which the subtlety of the concepts and methods makes rigor difficult to attain at an elementary level. The approach taken here uses elementary versions of modern methods found in sophisticated mathematics. The formal prerequisites include only a term of linear algebra, a nodding acquaintance with the notation of set theory, and a respectable first-year calculus course (one which at least mentions the least upper bound (sup) and greatest lower bound (inf) of a set of real numbers). Beyond this a certain (perhaps latent) rapport with abstract mathematics will be found almost essential.

幾何學的對象已由歐幾里得空間擴展至流形，即局部為歐氏的空間。本書是流形論的一本入門書。內容包括：張量空間、外微分、連絡、黎曼流形、李群和複流形。最後的附錄討論歐氏空間整體微分幾何的幾個命題，原文曾得美國數學協會CHAUVENET通俗論文獎。微分幾何牽涉到數學的多方面和理論物理，是近代數學的一項基本訓練，入門不易。但入門後的景色是偉大的。本書可做大學三、四年級或研究所教材。

本书对于高等微积分的一些经典结果作了现代化的处理。利用微分流形及外微分形式,简明而系统的讨论了多元函数的微积分。

This book describes conditional games, a form of game theory that accommodates multiple stakeholder decision-making scenarios where cooperation and negotiation are significant issues and where notions of concordant group behavior are important. The book extends the concept of a preference ordering that permits stakeholders to modulate their preferences as functions of the preferences of others.

An accessible, practical introduction to the principles ofdifferential equations The field of differential equations is a keystone of scientificknowledge today, with broad applications in mathematics,engineering, physics, and other scientific fields. Encompassingboth basic concepts and advanced results, Principles ofDifferential Equations is the definitive, hands-on introductionprofessionals and students need in order to gain a strong knowledgebase applicable to the many different subfields of differentialequations and dynamical systems. Nelson Markley includes essential background from analysis andlinear algebra, in a unified approach to ordinary differentialequations that underscores how key theoretical ingredientsinterconnect. Opening with basic existence and uniqueness results,Principles of Differential Equations systematically illuminates thetheory, progressing through linear systems to stable manifolds andbifurcation theory. Other vital topics covered include: Basic dynamical systems concepts Constant coefficients Stability The Poincaré return map Smooth vector fields As a comprehensive resource with complete proofs and more than200 exercises, Principles of Differential Equations is the idealself-study reference for professionals, and an effectiveintroduction and tutorial for students.

At the heart of every medical imaging technology is a sophisticated mathematical model of the measurement process and an algorithm to reconstruct an image from the measured data. This book provides a firm foundation in the mathematical tools used to model the measurements and derive the reconstruction algorithms used in most imaging modalities in current use. In the process, it also covers many important analytic concepts and techniques used in Fourier analysis, integral equations, sampling theory, and noise analysis.This text uses X-ray computed tomography as a "pedagogical machine" to illustrate important ideas and incorporates extensive discussions of background material making the more advanced mathematical topics accessible to readers with a less formal mathematical education. The mathematical concepts are illuminated with over 200 illustrations and numerous exercises.New to the second edition are a chapter on magnetic resonance imaging (MRI), a revised section on the relationship between the continuum and discrete Fourier transforms, a new section on Grangreat's formula, an improved description of the gridding method, and a new section on noise analysis in MRI. Audience The book is appropriate for one- or two-semester courses at the advanced undergraduate or beginning graduate level on the mathematical foundations of modern medical imaging technologies. The text assumes an understanding of calculus, linear algebra, and basic mathematical analysis. Contents Preface to the Second Edition; Preface; How to Use This Book; Notational Conventions; Chapter 1: Measurements and Modeling; Chapter 2: Linear Models and Linear Equations; Chapter 3: A Basic Model for Tomography; Chapter 4: Introduction to the Fourier Transform; Chapter 5: Convolution; Chapter 6: The Radon Transform; Chapter 7: Introduction to Fourier Series; Chapter 8: Sampling; Chapter 9: Filters; Chapter 10: Implementing Shift Invariant Filters; Chapter 11: Reconstruction in X-Ray Tomography; Chapter 12: Imaging Artifacts in X-Ray Tomography; Chapter 13: Algebraic Reconstruction Techniques; Chapter 14: Magnetic Resonance Imaging; Chapter 15: Probability and Random Variables; Chapter 16: Applications of Probability; Chapter 17: Random Processes; Appendix A: Background Material; Appendix B: Basic Analysis; Index.

This volume contains the proceedings from three conferences: the PISRS 2011 International Conference on Analysis, Fractal Geometry, Dynamical Systems and Economics, held November 8-12, 2011 in Messina, Italy; the AMS Special Session on Fractal Geometry in Pure and Applied Mathematics, in memory of Benoît Mandelbrot, held January 4-7, 2012, in Boston, MA; and the AMS Special Session on Geometry and Analysis on Fractal Spaces, held March 3-4, 2012, in Honolulu, HI. Articles in this volume cover fractal geometry and various aspects of dynamical systems in applied mathematics and the applications to other sciences. Also included are articles discussing a variety of connections between these subjects and various areas of physics, engineering, computer science, technology, economics and finance, as well as of mathematics (including probability theory in relation with statistical physics and heat kernel estimates, geometric measure theory, partial differential equations in relation with condensed matter physics, global analysis on non-smooth spaces, the theory of billiards, harmonic analysis and spectral geometry). The companion volume (Contemporary Mathematics, Volume 600) focuses on the more mathematical aspects of fractal geometry and dynamical systems.

This text was produced for the second part of a two-part sequence on advanced calculus, whose aim is to provide a firm logical foundation for analysis. The first part treats analysis in one variable, and the text at hand treats analysis in several variables. After a review of topics from one-variable analysis and linear algebra, the text treats in succession multivariable differential calculus, including systems of differential equations, and multivariable integral calculus. It builds on this to develop calculus on surfaces in Euclidean space and also on manifolds. It introduces differential forms and establishes a general Stokes formula. It describes various applications of Stokes formula, from harmonic functions to degree theory. The text then studies the differential geometry of surfaces, including geodesics and curvature, and makes contact with degree theory, via the Gauss–Bonnet theorem. The text also takes up Fourier analysis, and bridges this with results on surfaces, via Fourier analysis on spheres and on compact matrix groups.

This highly original book challenges social choice theory by arguing for the importance of dynamic preferences and context in understanding important social phenomena.

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