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A Series of Comprehensive Studies in Mathematics

Georges de Rham
Differentiable Manifolds



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Differentiable Manifolds Forms Currents Harmonic Forms

Patrícia Gonçalves, Ana Jacinta Soares



Differentiable Manifolds Forms Currents Harmonic Forms:

Differentiable Manifolds Georges De Rham, S S Chern, F R Smith, 1984-08-01 **Differentiable Manifolds** Shiing-Shen Chern, 1959 *Differentiable Manifolds* Georges de Rham, 2012-12-06 In this work I have attempted to give a coherent exposition of the theory of differential forms on a manifold and harmonic forms on a Riemannian space The concept of a current a notion so general that it includes as special cases both differential forms and chains is the key to understanding how the homology properties of a manifold are immediately evident in the study of differential forms and of chains The notion of distribution introduced by L Schwartz motivated the precise definition adopted here In our terminology distributions are currents of degree zero and a current can be considered as a differential form for which the coefficients are distributions The works of L Schwartz in particular his beautiful book on the Theory of Distributions have been a very great asset in the elaboration of this work The reader however will not need to be familiar with these Leaving aside the applications of the theory I have restricted myself to considering theorems which to me seem essential and I have tried to present simple and complete of these accessible to each reader having a minimum of mathematical proofs background Outside of topics contained in all degree programs the knowledge of the most elementary notions of general topology and tensor calculus and also for the final chapter that of the Fredholm theorem would in principle be adequate **Differential Manifolds. Forms, Currents, Harmonic Forms. Translated from the French by F.R. Smith. Introduction to the English Edition by S.S. Chern** Georges de Rham, 1984 **Surveys in Geometry II** Athanase Papadopoulos, 2024-05-27 The book is the second volume of a collection which consists of surveys that focus on important topics in geometry which are at the heart of current research The topics in the present volume include the conformal and the metric geometry of surfaces Teichmüller spaces immersed surfaces of prescribed extrinsic curvature in 3 dimensional manifolds symplectic geometry the metric theory of Grassmann spaces homogeneous metric spaces polytopes the higher dimensional Gauss Bonnet formula isoperimetry in finitely generated groups and Coxeter groups Each chapter is intended for graduate students and researchers Several chapters are based on lectures given by their authors to middle advanced level students and young researchers The whole book is intended to be an introduction to important topics in geometry **Manifolds, Tensor Analysis, and Applications** Ralph Abraham, Jerrold E. Marsden, Tudor Ratiu, 2012-12-06 The purpose of this book is to provide core material in nonlinear analysis for mathematicians physicists engineers and mathematical biologists The main goal is to provide a working knowledge of manifolds dynamical systems tensors and differential forms Some applications to Hamiltonian mechanics fluid mechanics electromagnetism plasma dynamics and control theory are given in Chapter 8 using both invariant and index notation The current edition of the book does not deal with Riemannian geometry in much detail and it does not treat Lie groups principal bundles or Morse theory Some of this is planned for a subsequent edition Meanwhile the authors will make available to interested readers supplementary chapters on Lie Groups and Differential Topology and invite comments on the

book's contents and development Throughout the text supplementary topics are given marked with the symbols and $\lceil \rfloor$ This device enables the reader to skip various topics without disturbing the main flow of the text Some of these provide additional background material intended for completeness to minimize the necessity of consulting too many outside references We treat finite and infinite dimensional manifolds simultaneously This is partly for efficiency of exposition Without advanced applications using manifolds of mappings the study of infinite dimensional manifolds can be hard to motivate Foundations of Classical Electrodynamics Friedrich W Hehl, Yuri N. Obukhov, 2012-12-06 In this book we display the fundamental structure underlying classical electrodynamics i.e the phenomenological theory of electric and magnetic effects The book can be used as a textbook for an advanced course in theoretical electrodynamics for physics and mathematics students and perhaps for some highly motivated electrical engineering students We expect from our readers that they know elementary electrodynamics in the conventional 1-3 dimensional form including Maxwell's equations More over they should be familiar with linear algebra and elementary analysis including vector analysis Some knowledge of differential geometry would help Our approach rests on the metric free integral formulation of the conservation laws of electrodynamics in the tradition of F Kottler 1922 E Cartan 1923 and D van Dantzig 1934 and we stress in particular the axiomatic point of view In this manner we are led to an understanding of why the Maxwell equations have their specific form We hope that our book can be seen in the classical tradition of the book by E J Post 1962 on the Formal Structure of Electromagnetics and of the chapter Charge and Magnetic Flux of the encyclopedia article on classical field theories by C Truesdell and R A Toupin 1960 including R A Toupin's Bressanone lectures 1965 for the exact references see the end of the introduction on page 11 From Particle Systems to Partial Differential Equations Patrícia Gonçalves, Ana Jacinta Soares, 2017-11-15 This book addresses mathematical problems motivated by various applications in physics engineering chemistry and biology It gathers the lecture notes from the mini course presented by Jean Christophe Mourrat on the construction of the various stochastic basic terms involved in the formulation of the dynamic ϕ theory in three space dimensions as well as selected contributions presented at the fourth meeting on Particle Systems and PDEs which was held at the University of Minho's Centre of Mathematics in December 2015 The purpose of the conference was to bring together prominent researchers working in the fields of particle systems and partial differential equations offering them a forum to present their recent results and discuss their topics of expertise The meeting was also intended to present to a vast and varied public including young researchers the area of interacting particle systems its underlying motivation and its relation to partial differential equations The book will be of great interest to probabilists analysts and all mathematicians whose work focuses on topics in mathematical physics stochastic processes and differential equations in general as well as physicists working in statistical mechanics and kinetic theory **Introduction to Analysis in Several Variables: Advanced Calculus** Michael E. Taylor, 2020-07-27 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

Quantum Field Theory III: Gauge Theory Eberhard Zeidler, 2011-08-17 In this third volume of his modern introduction to quantum field theory Eberhard Zeidler examines the mathematical and physical aspects of gauge theory as a principle tool for describing the four fundamental forces which act in the universe gravitative electromagnetic weak interaction and strong interaction Volume III concentrates on the classical aspects of gauge theory describing the four fundamental forces by the curvature of appropriate fiber bundles This must be supplemented by the crucial but elusive quantization procedure The book is arranged in four sections devoted to realizing the universal principle force equals curvature Part I The Euclidean Manifold as a Paradigm Part II Ariadne's Thread in Gauge Theory Part III Einstein's Theory of Special Relativity Part IV Ariadne's Thread in Cohomology For students of mathematics the book is designed to demonstrate that detailed knowledge of the physical background helps to reveal interesting interrelationships among diverse mathematical topics Physics students will be exposed to a fairly advanced mathematics beyond the level covered in the typical physics curriculum Quantum Field Theory builds a bridge between mathematicians and physicists based on challenging questions about the fundamental forces in the universe macrocosmos and in the world of elementary particles microcosmos

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