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MATH 437 - Differential Forms and Their Applications

Differential Forms and Applications, Springer Verlag, Universitext, 1994 Manfredo P. do Carmo – Selected Papers (ed. Keti Tenenblat), Springer, 2012, first volume of the collection "Selected Works of Outstanding Brazilian Mathematicians" Eduardo Wagner, Augusto Cezar de Oliveira Morgado, Manfredo Perdigão do Carmo.

Manfredo do Carmo - Wikipedia

Differential Forms and Applications (Universitext) by Manfredo P. Do Carmo |

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Differential Forms and Applications by Manfredo P. do Carmo , [1994]; Other

References: An Introduction to Manifolds by Loring W. Tu, [2011].Vector Calculus, Linear Algebra and Differential Forms by John H. Hubbard and Barbara Burke Hubbard. Prerequisites: Calculus and Linear Algebra.

Manifolds and Differential Forms: MATH 3210

Our main reference is the book "Differential Forms and Applications" by Manfredo P.do Carmo. After you skim over the book, you can choose one chapter (or project) you are interested in. There will be no regular meeting, however, during the semester you will give a presentation and hand in a short report.

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Do Carmo Differential Geometry Solutions

Having tried for about 2 years now to penetrate differential forms, this is the first book I've encountered that is actually a decent work of education rather than some black art. Others can glow with odd insights of the author, but few like this give the reader the regular eureka experience of understanding - that points reached have actually been reached, and the key concepts assimilated.

An application of differential forms for the study of some local and global aspects of

the differential geometry of surfaces. Differential forms are introduced in a simple way that will make them attractive to "users" of mathematics. A brief and elementary introduction to differentiable manifolds is given so that the main theorem, namely Stokes' theorem, can be presented in its natural setting. The applications consist in developing the method of moving frames expounded by E. Cartan to study the local differential geometry of immersed surfaces in R3 as well as the intrinsic geometry of surfaces. This is then collated in the last chapter to present Chern's proof of the Gauss-Bonnet theorem for compact surfaces.

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Introducing the tools of modern differential geometry--exterior calculus, manifolds, vector bundles, connections--this textbook covers both classical surface theory, the modern theory of connections, and curvature. With no

knowledge of topology assumed, the only prerequisites are multivariate calculus and linear algebra.

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One of the most widely used texts in its field, this volume introduces the differential geometry of curves and surfaces in both local and global aspects. The presentation departs from the traditional approach with its more extensive use of elementary linear algebra and its emphasis on basic geometrical facts rather than machinery or random details. Many examples and exercises enhance the clear, well-written exposition, along with hints and answers to some of the problems. The treatment begins with a chapter on curves, followed by explorations of regular surfaces, the geometry of the Gauss map, the intrinsic

geometry of surfaces, and global differential geometry. Suitable for advanced undergraduates and graduate students of mathematics, this text's prerequisites include an undergraduate course in linear algebra and some familiarity with the calculus of several variables. For this second edition, the author has corrected, revised, and updated the entire volume.

Developed from a first-year graduate course in algebraic topology, this text is an informal introduction to some of the main ideas of contemporary homotopy and cohomology theory. The materials are structured around four core areas: de Rham theory, the Cech-de Rham complex, spectral sequences, and characteristic classes. By using the de Rham theory of differential forms as a prototype of cohomology, the machineries of algebraic

topology are made easier to assimilate. With its stress on concreteness, motivation, and readability, this book is equally suitable for self-study and as a one-semester course in topology.

Differential geometry arguably offers the smoothest transition from the standard university mathematics sequence of the first four semesters in calculus, linear algebra, and differential equations to the higher levels of abstraction and proof encountered at the upper division by mathematics majors. Today it is possible to describe differential geometry as "the study of structures on the tangent space," and this text develops this point of view. This book, unlike other introductory texts in differential geometry, develops the architecture necessary to introduce symplectic and contact geometry alongside its Riemannian cousin. The

main goal of this book is to bring the undergraduate student who already has a solid foundation in the standard mathematics curriculum into contact with the beauty of higher mathematics. In particular, the presentation here emphasizes the consequences of a definition and the careful use of examples and constructions in order to explore those consequences.

This text contains an elementary introduction to continuous groups and differential invariants; an extensive treatment of groups of motions in euclidean, affine, and riemannian geometry; more. Includes exercises and 62 figures.

This text is one of the first to treat vector calculus using differential forms in place of vector fields and other outdated

techniques. Geared towards students taking courses in multivariable calculus, this innovative book aims to make the subject more readily understandable. Differential forms unify and simplify the subject of multivariable calculus, and students who learn the subject as it is presented in this book should come away with a better conceptual understanding of it than those who learn using conventional methods. * Treats vector calculus using differential forms * Presents a very concrete introduction to differential forms * Develops Stokess theorem in an easily understandable way * Gives well-supported, carefully stated, and thoroughly explained definitions and theorems. * Provides glimpses of further topics to entice the interested student

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