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1.1: Homotopy (Animation
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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,

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The guiding principle in this book is to use differential forms as an aid in exploring some of the less digestible aspects of algebraic topology. Accordingly, we move primarily in the realm of smooth manifolds and use the de Rham theory as a prototype of all of

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by Bott, Raoul (ISBN:
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a topological space is a family of open subsets such that is the union of all of the open sets. A good cover is an open cover in which all sets and all intersections of finitely-many sets are contractible (Petersen 2006).. The concept was introduced by André

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Weil in 1952 for differentiable
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Differential Forms in Algebraic
Topology (with Raoul Bott), third
corrected printing, Graduate Text
in Mathematics, Springer, New
York, 1995. The third printing
published in 1995 corrects
misprints in earlier printings; after
that, the book has remained

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stable. Any printing dated 1995 or
later should be fine. Earlier
printings should be discarded.

Errata for Bott and Tu's book
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of cohomology, the machineries
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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

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and cohomology theory. The materials are structured around four core areas: de Rham theory, the Čech-de Rham complex, spectral sequences, and characteristic classes. By using the de Rham theory of differential forms as a prototype of

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Topology, 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.

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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

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book is equally suitable for self-
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course in topology.

In this volume the authors seek to

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Illustrate how methods of differential geometry find application in the study of the topology of differential manifolds. Prerequisites are few since the authors take pains to set out the theory of differential forms and the algebra required. The reader

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is introduced to De Rham
cohomology, and explicit and
detailed calculations are present
as examples. Topics covered
include Mayer-Vietoris exact
sequences, relative cohomology,
Pioncare duality and Lefschetz's
theorem. This book will be

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suitable for graduate students
taking courses in algebraic
topology and in differential
topology. Mathematicians
studying relativity and
mathematical physics will find
this an invaluable introduction to
the techniques of differential

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This text presents a graduate-level introduction to differential geometry for mathematics and physics students. The exposition follows the historical development of the concepts of connection and

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curvature with the goal of explaining the Chern–Weil theory of characteristic classes on a principal bundle. Along the way we encounter some of the high points in the history of differential geometry, for example, Gauss' Theorema Egregium and the

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Gauss-Bonnet theorem. Exercises throughout the book test the reader's understanding of the material and sometimes illustrate extensions of the theory. Initially, the prerequisites for the reader include a passing familiarity with manifolds. After the first chapter,

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It becomes necessary to understand and manipulate differential forms. A knowledge of de Rham cohomology is required for the last third of the text.

Prerequisite material is contained in author's text An Introduction to Manifolds, and can be learned in

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one semester. For the benefit of the reader and to establish common notations, Appendix A recalls the basics of manifold theory. Additionally, in an attempt to make the exposition more self-contained, sections on algebraic constructions such as

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the tensor product and the exterior power are included.

Differential geometry, as its name implies, is the study of geometry using differential calculus. It dates back to Newton and Leibniz in the seventeenth century, but it was not until the nineteenth century,

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with the work of Gauss on
surfaces and Riemann on the
curvature tensor, that differential
geometry flourished and its
modern foundation was laid. Over
the past one hundred years,
differential geometry has proven
indispensable to an

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Understanding of the physical world, in Einstein's general theory of relativity, in the theory of gravitation, in gauge theory, and now in string theory. Differential geometry is also useful in topology, several complex variables, algebraic geometry,

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complex manifolds, and dynamical systems, among other fields. The field has even found applications to group theory as in Gromov's work and to probability theory as in Diaconis's work. It is not too far-fetched to argue that differential geometry should be in

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every mathematician's arsenal.
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Manifolds, the higher-dimensional analogs of smooth curves and surfaces, are fundamental objects in modern mathematics.

Combining aspects of algebra, topology, and analysis, manifolds

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have also been applied to classical mechanics, general relativity, and quantum field theory. In this streamlined introduction to the subject, the theory of manifolds is presented with the aim of helping the reader achieve a rapid mastery of the

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essential topics. By the end of the book the reader should be able to compute, at least for simple spaces, one of the most basic topological invariants of a manifold, its de Rham cohomology. Along the way, the reader acquires the knowledge

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and skills necessary for further study of geometry and topology.

The requisite point-set topology is included in an appendix of twenty pages; other appendices review facts from real analysis and linear algebra. Hints and solutions are provided to many of the exercises

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and problems. This work may be used as the text for a one-semester graduate or advanced undergraduate course, as well as by students engaged in self-study. Requiring only minimal undergraduate prerequisites, 'Introduction to Manifolds' is also

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an excellent foundation for
Springer's GTM 82, 'Differential
Forms in Algebraic Topology'.

This book is a well-informed and
detailed analysis of the problems
and development of algebraic
topology, from Poincaré and

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Brouwer to Serre, Adams, and Thom. The author has examined each significant paper along this route and describes the steps and strategy of its proofs and its relation to other work. Previously, the history of the many technical developments of 20th-century

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mathematics had seemed to present insuperable obstacles to scholarship. This book demonstrates in the case of topology how these obstacles can be overcome, with enlightening results.... Within its chosen boundaries the coverage of this

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book is superb. Read it!
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This completely revised and corrected version of the well-known Florence notes circulated by the authors together with E. Friedlander examines basic

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Topology, emphasizing homotopy theory. Included is a discussion of Postnikov towers and rational homotopy theory. This is then followed by an in-depth look at differential forms and de Rham's theorem on simplicial complexes. In addition, Sullivan's results on

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throughout the book, reflecting
advances in the area of homotopy
theory With its modern approach
and timely revisions, this second
edition of Rational Homotopy
Theory and Differential Forms will
be a valuable resource for
graduate students and

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researchers in algebraic topology,
differential forms, and homotopy
theory.

Since the times of Gauss,
Riemann, and Poincare, one of

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the principal goals of the study of manifolds has been to relate local analytic properties of a manifold with its global topological properties. Among the high points on this route are the Gauss-Bonnet formula, the de Rham complex, and the Hodge theorem;

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these results show, in particular,
that the central tool in reaching
the main goal of global analysis is
the theory of differential forms.
This book is a comprehensive
introduction to differential forms.
It begins with a quick
presentation of the notion of

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differentiable manifolds and then develops basic properties of differential forms as well as fundamental results about them, such as the de Rham and Frobenius theorems. The second half of the book is devoted to more advanced material,

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Including Laplacians and harmonic forms on manifolds, the concepts of vector bundles and fiber bundles, and the theory of characteristic classes. Among the less traditional topics treated in the book is a detailed description of the Chern-Weil theory. With

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minimal prerequisites, the book
can serve as a textbook for an
advanced undergraduate or a
graduate course in differential
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organized and surprisingly comprehensive treatment of most of the basic material in differential topology, as far as is accessible without the methods of algebraic topology....There is an abundance of exercises, which supply many beautiful examples

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and much interesting additional information, and help the reader to become thoroughly familiar with the material of the main text." —MATHEMATICAL REVIEWS

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