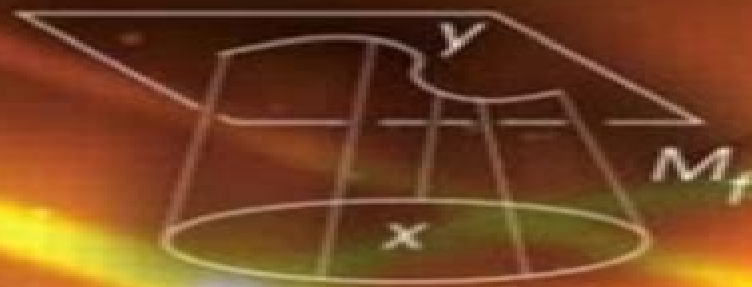


Basic Algebraic Topology



Anant R. Shastri



CRC Press
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A CHAPMAN & HALL BOOK

Basic Course In Algebraic Topology A

Albrecht Dold



Basic Course In Algebraic Topology A:

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A Concise Course in Algebraic Topology J. P. May, 1999-09 Algebraic topology is a basic part of modern mathematics and some knowledge of this area is indispensable for any advanced work relating to geometry including topology itself differential geometry algebraic geometry and Lie groups This book provides a detailed treatment of algebraic topology both for teachers of the subject and for advanced graduate students in mathematics either specializing in this area or continuing on to other fields J Peter May's approach reflects the enormous internal developments within algebraic topology over the past several decades most of which are largely unknown to mathematicians in other fields But he also retains the classical presentations of various topics where appropriate Most chapters end with problems that further explore and refine the concepts presented The final four chapters provide sketches of substantial areas of algebraic topology that are normally omitted from introductory texts and the book concludes with a list of suggested readings for those interested in delving further into the field

Lectures on Algebraic Topology Albrecht Dold, 2012-12-06 Springer is reissuing a selected few highly successful books in a new inexpensive softcover edition to make them easily accessible to younger generations of students and researchers Springer Verlag began publishing books in higher mathematics in 1920 This is a reprint of the Second Edition

A First Course in Algebraic Topology A. Lahiri, B. K. Lahiri, 2000 This volume is an introductory text where the subject matter has been presented lucidly so as to help self study by the beginners New definitions are followed by suitable illustrations and the proofs of the theorems are easily accessible to the readers Sufficient number of examples have been incorporated to facilitate clear understanding of the concepts The book

starts with the basic notions of category functors and homotopy of continuous mappings including relative homotopy Fundamental groups of circles and torus have been treated along with the fundamental group of covering spaces Simplexes and complexes are presented in detail and two homology theories simplicial homology and singular homology have been considered along with calculations of some homology groups *Basic Concepts of Algebraic Topology* F.H.

Croom,2012-12-06 This text is intended as a one semester introduction to algebraic topology at the undergraduate and beginning graduate levels Basically it covers simplicial homology theory the fundamental group covering spaces the higher homotopy groups and introductory singular homology theory The text follows a broad historical outline and uses the proofs of the discoverers of the important theorems when this is consistent with the elementary level of the course This method of presentation is intended to reduce the abstract nature of algebraic topology to a level that is palatable for the beginning student and to provide motivation and cohesion that are often lacking in abstract treatments The text emphasizes the geometric approach to algebraic topology and attempts to show the importance of topological concepts by applying them to problems of geometry and analysis The prerequisites for this course are calculus at the sophomore level a one semester introduction to the theory of groups a one semester introduction to point set topology and some familiarity with vector spaces Outlines of the prerequisite material can be found in the appendices at the end of the text It is suggested that the reader not spend time initially working on the appendices but rather that he read from the beginning of the text referring to the appendices as his memory needs refreshing The text is designed for use by college juniors of normal intelligence and does not require mathematical maturity beyond the junior level **Commutative Algebra** David Eisenbud,2013-12-01

Commutative Algebra is best understood with knowledge of the geometric ideas that have played a great role in its formation in short with a view towards algebraic geometry The author presents a comprehensive view of commutative algebra from basics such as localization and primary decomposition through dimension theory differentials homological methods free resolutions and duality emphasizing the origins of the ideas and their connections with other parts of mathematics Many exercises illustrate and sharpen the theory and extended exercises give the reader an active part in complementing the material presented in the text One novel feature is a chapter devoted to a quick but thorough treatment of Grobner basis theory and the constructive methods in commutative algebra and algebraic geometry that flow from it Applications of the theory and even suggestions for computer algebra projects are included This book will appeal to readers from beginners to advanced students of commutative algebra or algebraic geometry To help beginners the essential ideals from algebraic geometry are treated from scratch Appendices on homological algebra multilinear algebra and several other useful topics help to make the book relatively self contained Novel results and presentations are scattered throughout the text [More Concise Algebraic Topology](#) J. P. May,K. Ponto,2011-12-05 With firm foundations dating only from the 1950s algebraic topology is a relatively young area of mathematics There are very few textbooks that treat fundamental topics beyond a first

course and many topics now essential to the field are not treated in any textbook J Peter May's *A Concise Course in Algebraic Topology* addresses the standard first course material such as fundamental groups covering spaces the basics of homotopy theory and homology and cohomology In this sequel May and his coauthor Kathleen Ponto cover topics that are essential for algebraic topologists and others interested in algebraic topology but that are not treated in standard texts They focus on the localization and completion of topological spaces model categories and Hopf algebras The first half of the book sets out the basic theory of localization and completion of nilpotent spaces using the most elementary treatment the authors know of It makes no use of simplicial techniques or model categories and it provides full details of other necessary preliminaries With these topics as motivation most of the second half of the book sets out the theory of model categories which is the central organizing framework for homotopical algebra in general Examples from topology and homological algebra are treated in parallel A short last part develops the basic theory of bialgebras and Hopf algebras

Unveiling the Energy of Verbal Artistry: An Mental Sojourn through **Basic Course In Algebraic Topology A**

In some sort of inundated with displays and the cacophony of instant communication, the profound energy and psychological resonance of verbal art usually fade into obscurity, eclipsed by the regular barrage of noise and distractions. However, nestled within the lyrical pages of **Basic Course In Algebraic Topology A**, a interesting work of literary beauty that impulses with natural feelings, lies an unforgettable trip waiting to be embarked upon. Published by way of a virtuoso wordsmith, that magical opus books readers on a psychological odyssey, delicately exposing the latent potential and profound affect embedded within the complex internet of language. Within the heart-wrenching expanse of the evocative evaluation, we can embark upon an introspective exploration of the book is central subjects, dissect its captivating publishing design, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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