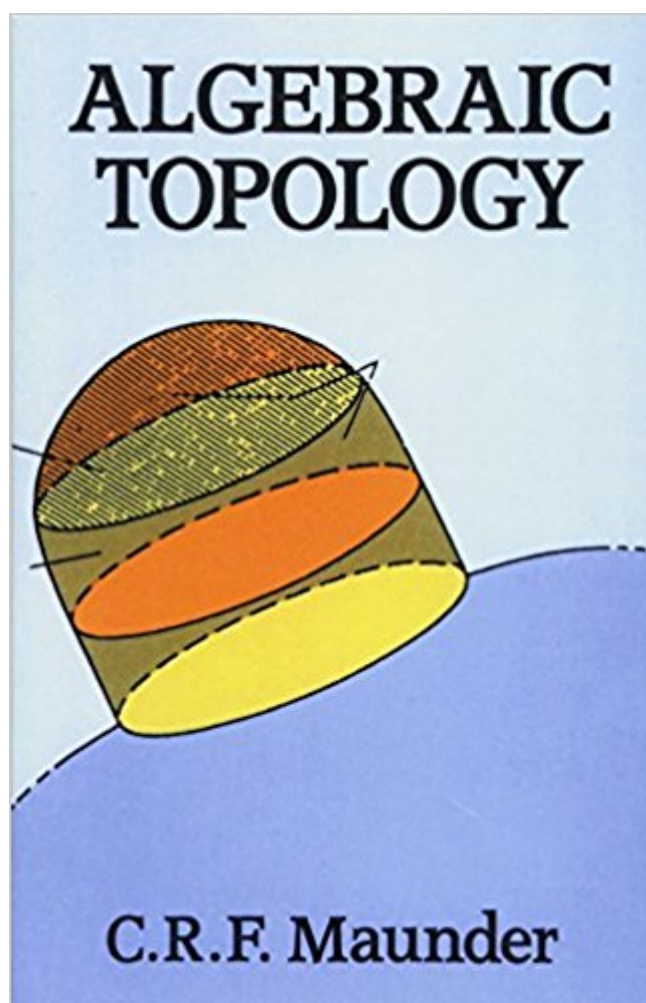The book was found

Algebraic Topology (Dover Books On Mathematics)

Synopsis

Based on lectures to advanced undergraduate and first-year graduate students, this is a thorough, sophisticated and modern treatment of elementary algebraic topology, essentially from a homotopy theoretic viewpoint. The presentation of the homotopy theory and the account of duality in homology manifolds make the text ideal for a course on either homotopy or homology theory.The idea of algebraic topology is to translate problems in topology into problems in algebra with the hope that they have a better chance of solution. The translation process is usually carried out by means of the homology or homotopy groups of a topological space. Much of the book is therefore concerned with the construction of these algebraic invariants, and with applications to topological problems, such as the classification of surfaces and duality theorems for manifolds. Other important topics covered are homotopy theory, CW-complexes and the co-homology groups associated with a general Ã Â©-spectrum.Dr. Maunder has provided many examples and exercises as an aid, and the notes and references at the end of each chapter trace the historical development of the subject and also point the way to more advanced results."Throughout the text the style of writing is first class. The author has given much attention to detail, yet ensures that the reader knows where he is going. An excellent book." Ã¢â ¬â • Bulletin of the Institute of Mathematics and Its Applications.

Book Information

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Customer Reviews

Maunder's text may not be the "best" book on algebraic topology, but I still recommend this one to those who find other more advanced texts like Spanier rather inaccessible. Warning: the chapter on

cohomology and duality is not very well-organaized (compared to other chapters), so you may want to consult Bredon's book instead.

A very interesting book which I enjoyed. I particularly found useful the "crash review" in algebra and analysis which functioned as a useful reference throughout the book.

It is a decent book in algebraic topology, as a reference. At first, I found this textbook rather hard to read. Too many lemmas, theorems, etceteras. Three suggestions:1. Needs more pictures, especially for the simplicial homology Chapter.2. CW complexes should be covered before duality and not after.3. Needs more examples and exercises.Overall, the book is very good, if you have already some experience in Algebraic Topology. I found that the Croom's book "Basic concepts of Algebraic Topology" is an excellent first textbook. Too bad it is out of print, since it is very popular, every time I get it from the library, someone else recalls it. The combination of these two books probably is the right thing to have: Maunder's book picks up where Croom has left you.

Algebraic Topology (Dover Books on Mathematics) A Concise Course in Algebraic Topology (Chicago Lectures in Mathematics) Algebraic Topology: An Introduction (Graduate Texts in Mathematics) (v. 56) Simplicial Objects in Algebraic Topology (Chicago Lectures in Mathematics) Algebraic Topology Algebraic Topology: An Intuitive Approach (Translations of Mathematical Monographs, Vol. 183) Algebraic Topology: A Student's Guide (London Mathematical Society Lecture Note Series) Principles of Topology (Dover Books on Mathematics) Introduction to Topology: Third Edition (Dover Books on Mathematics) General Topology (Dover Books on Mathematics) Topology and Geometry for Physicists (Dover Books on Mathematics) Introduction to Topology: Second Edition (Dover Books on Mathematics) Counterexamples in Topology (Dover Books on Mathematics) Real Variables with Basic Metric Space Topology (Dover Books on Mathematics) A Combinatorial Introduction to Topology (Dover Books on Mathematics) Algebraic Graph Theory (Graduate Texts in Mathematics) Commutative Algebra: with a View Toward Algebraic Geometry (Graduate Texts in Mathematics) Algebraic Geometry and Statistical Learning Theory (Cambridge Monographs on Applied and Computational Mathematics) Algebraic Geometry (Graduate Texts in Mathematics) Ideals, Varieties, and Algorithms: An Introduction to Computational Algebraic Geometry and Commutative Algebra (Undergraduate Texts in Mathematics)

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