

1. Record Nr.	UNINA9910300101103321
Autore	Deo Satya
Titolo	Algebraic Topology : A Primer / / by Satya Deo
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2018
ISBN	981-10-8734-2
Edizione	[2nd ed. 2018.]
Descrizione fisica	1 online resource (XII, 344 p. 104 illus.)
Collana	Texts and Readings in Mathematics, , 2366-8717 ; ; 27
Disciplina	514.2
Soggetti	Algebraic topology Algebraic Topology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1. Basic Topology: a review -- Chapter 2. The Fundamental Group -- Chapter 3. Simplicial Complexes -- Chapter 4. Simplicial Homology -- Chapter 5. Covering Projections -- Chapter 6. Singular Homology -- Chapter 7. Appendix.
Sommario/riassunto	This book presents the first concepts of the topics in algebraic topology such as the general simplicial complexes, simplicial homology theory, fundamental groups, covering spaces and singular homology theory in greater detail. Originally published in 2003, this book has become one of the seminal books. Now, in the completely revised and enlarged edition, the book discusses the rapidly developing field of algebraic topology. Targeted to undergraduate and graduate students of mathematics, the prerequisite for this book is minimal knowledge of linear algebra, group theory and topological spaces. The book discusses about the relevant concepts and ideas in a very lucid manner, providing suitable motivations and illustrations. All relevant topics are covered, including the classical theorems like the Brouwer's fixed point theorem, Lefschetz fixed point theorem, Borsuk-Ulam theorem, Brouwer's separation theorem and the theorem on invariance of the domain. Most of the exercises are elementary, but sometimes challenging, for the reader to provoke their curiosity for problem-solving.