

1. Record Nr.	UNISA996466642803316
Autore	Barmak Jonathan A
Titolo	Algebraic Topology of Finite Topological Spaces and Applications [[electronic resource] /] / by Jonathan A. Barmak
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2011
ISBN	3-642-22003-7
Edizione	[1st ed. 2011.]
Descrizione fisica	1 online resource (XVII, 170p. 35 illus.)
Collana	Lecture Notes in Mathematics, , 0075-8434 ; ; 2032
Disciplina	514.2
Soggetti	Algebraic topology Combinatorics Convex geometry Discrete geometry Algebra Ordered algebraic structures Manifolds (Mathematics) Complex manifolds Discrete mathematics Algebraic Topology Convex and Discrete Geometry Order, Lattices, Ordered Algebraic Structures Manifolds and Cell Complexes (incl. Diff.Topology) Discrete Mathematics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1 Preliminaries -- 2 Basic topological properties of finite spaces -- 3 Minimal finite models -- 4 Simple homotopy types and finite spaces -- 5 Strong homotopy types -- 6 Methods of reduction -- 7 h-regular complexes and quotients -- 8 Group actions and a conjecture of Quillen -- 9 Reduced lattices -- 10 Fixed points and the Lefschetz number -- 11 The Andrews-Curtis conjecture.
Sommario/riassunto	This volume deals with the theory of finite topological spaces and its relationship with the homotopy and simple homotopy theory of

polyhedra. The interaction between their intrinsic combinatorial and topological structures makes finite spaces a useful tool for studying problems in Topology, Algebra and Geometry from a new perspective. In particular, the methods developed in this manuscript are used to study Quillen's conjecture on the poset of  $p$ -subgroups of a finite group and the Andrews-Curtis conjecture on the 3-deformability of contractible two-dimensional complexes. This self-contained work constitutes the first detailed exposition on the algebraic topology of finite spaces. It is intended for topologists and combinatorialists, but it is also recommended for advanced undergraduate students and graduate students with a modest knowledge of Algebraic Topology.

2. Record Nr.	UNINA9910778647803321
Titolo	Adviser, teacher, role model, friend [[electronic resource] ] : on being a mentor to students in science and engineering // National Academy of Sciences, National Academy of Engineering, Institute of Medicine
Pubbl/distr/stampa	Washington, D.C., : National Academy Press, 1997
ISBN	0-309-13267-3 1-280-21019-2 9786610210190 0-309-59276-3 0-585-00204-5
Descrizione fisica	1 online resource (96 p.)
Disciplina	507.1
Soggetti	Science - Study and teaching Engineering - Study and teaching Faculty advisors Mentoring in science
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references (p. 72-77).
Nota di contenuto	ADVISER, TEACHER, ROLE MODEL, FRIEND; Copyright; PREFACE; ACKNOWLEDGMENTS; Contents; 1 WHAT IS A MENTOR?; THE

MENTORING RELATIONSHIP; PROFESSIONAL ETHICS; POPULATION-DIVERSITY ISSUES; 2 THE MENTOR AS FACULTY ADVISER; MENTORING UNDERGRADUATES; MENTORING GRADUATE STUDENTS; MENTORING POSTDOCTORAL STUDENTS; MENTORING JUNIOR FACULTY; 3 THE MENTOR AS CAREER ADVISER; ENVISIONING AND PLANNING A CAREER; UNDERGRADUATES: EARLY PERSPECTIVES; GRADUATE STUDENTS: HELPING STUDENTS BECOME COLLEAGUES; POSTDOCTORAL STUDENTS: FINDING A ""REAL"" JOB; THE CAREER AS CONTINUUM; 4 THE MENTOR AS SKILLS CONSULTANT  
DEVELOPING SKILLS AS AN UNDERGRADUATE DEVELOPING SKILLS AS A GRADUATE STUDENT; SKILLS FOR ALL LEVELS; 5 THE MENTOR AS ROLE MODEL; 6 RECOMMENDATION: IMPROVING THE QUALITY OF MENTORING; 7 RESOURCES; INTERNET RESOURCES; GENDER, CULTURAL, AND DISABILITY ISSUES; Bibliography; DOING SCIENCE; PRESENTATIONS; JOB-HUNTING; MENTORING; ORAL COMMUNICATION; TIME MANAGEMENT AND PROFESSIONAL DEVELOPMENT; GENDER, CULTURAL, AND DISABILITY ISSUES; RESPONSIBLE SCIENTIFIC CONDUCT; TEACHING; WRITING; REPORT BRIEF RESHAPING THE GRADUATE EDUCATION OF SCIENTISTS AND ENGINEERS

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