

1. Record Nr.	UNINA9910154749003321
Autore	Madsen Ib
Titolo	Classifying Spaces for Surgery and Corbordism of Manifolds. (AM-92), Volume 92 // R. James Milgram, Ib Madsen
Pubbl/distr/stampa	Princeton, NJ : , : Princeton University Press, , [2016] ©1980
ISBN	1-4008-8147-1
Descrizione fisica	1 online resource (296 pages) : illustrations
Collana	Annals of Mathematics Studies ; ; 229
Disciplina	514/.223
Soggetti	Manifolds (Mathematics) Classifying spaces Surgery (Topology) Cobordism theory
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	Frontmatter -- CONTENTS -- INTRODUCTION -- CHAPTER 1. CLASSIFYING SPACES AND COBORDISM -- CHAPTER 2. THE SURGERY CLASSIFICATION OF MANIFOLDS -- CHAPTER 3. THE SPACES SG AND BSG -- CHAPTER 4. THE HOMOTOPY STRUCTURE OF G/PL AND G/TOP -- CHAPTER 5. THE HOMOTOPY STRUCTURE OF $MSPL[\frac{1}{2}]$ AND $MSTOP[\frac{1}{2}]$ -- CHAPTER 6 . INFINITE LOOP SPACES AND THEIR HOMOLOGY OPERATIONS -- CHAPTER 7. THE 2-LOCAL STRUCTURE OF $B(G/TOP)$ -- CHAPTER 8 . THE TORSION FREE STRUCTURE OF THE ORIENTED COBORDISM RINGS -- CHAPTER 9. THE TORSION FREE COHOMOLOGY OF G/TOP AND G/PL -- CHAPTER 10. THE TORSION FREE COHOMOLOGY OF $BTOP$ AND BPL -- CHAPTER 11. INTEGRALITY THEOREMS -- CHAPTER 12. THE SMOOTH SURGERY CLASSES AND $H^*(BTOP; \mathbb{Z}/2)$ -- CHAPTER 13. THE BOCKSTEIN SPECTRAL SEQUENCE FOR $BTOP$ -- CHAPTER 14. THE TYPES OF TORSION GENERATORS -- APPENDIX. THE PROOFS OF 13.12, 13.13, AND 13.15 -- BIBLIOGRAPHY -- INDEX -- Backmatter
Sommario/riassunto	Beginning with a general discussion of bordism, Professors Madsen and Milgram present the homotopy theory of the surgery classifying spaces and the classifying spaces for the various required bundle theories. The

next part covers more recent work on the maps between these spaces and the properties of the PL and Top characteristic classes, and includes integrality theorems for topological and PL manifolds. Later chapters treat the integral cohomology of BPL and Btop. The authors conclude with a discussion of the PL and topological cobordism rings and a construction of the torsion-free generators.
