

Contents

Preface	ix
Manifolds, K-theory, and the calculus of functors GREGORY ARONE and MICHAEL CHING	1
Diagrams encoding group actions on Γ -spaces JULIA E. BERGNER and PHILIP HACKNEY	39
Contractible manifolds with exotic positive scalar curvature behavior STANLEY CHANG, SHMUEL WEINBERGER, and GUOLIANG YU	51
Relative Schur multipliers and universal extensions of group homomorphisms EMMANUEL D. FARJOUN and YOAV SEGEV	65
Scissors congruence with mixed dimensions THOMAS G. GOODWILLIE	81
On the moduli space of A_∞ -structures JOHN R. KLEIN and SEAN TILSON	141
Nilpotence in the symplectic bordism ring JUSTIN NOEL	161
A geometric homology representative in the space of knots KRISTINE E. PELATT and DEV P. SINHA	167
Brauer spaces for commutative rings and structured ring spectra MARKUS SZYMIK	189
Bridgeland stability, 2-Segal spaces, and the Ran space of the line HIRO LEE TANAKA	209
Occupants in manifolds STEFFEN TILLMANN and MICHAEL S. WEISS	237