## CONTENTS

Preface		ix
Ι	EXPONENTS IN HOMOTOPY THEORY by F. R. Cohen, J. C. Moore, and J. A. Neisendorfer	3
II	THE EXPONENT OF A MOORE SPACE by Joseph A. Neisendorfer	<b>3</b> 5
III	THE SPACE OF MAPS OF MOORE SPACES INTO SPHERES by H. E. A. Campbell, F. R. Cohen, F. P. Peterson, and P. S. Selick	72
IV	THE ADAMS SPECTRAL SEQUENCE OF $\Omega^2 s^3$ AND BROWN- GITLER SPECTRA by Edgar H. Brown and Ralph L. Cohen	101
V	HOMOTOPY GROUPS OF SOME MAPPING TELESCOPES by Donald M. Davis and Mark Mahowald	126
VI	MAPPING TELESCOPES AND $K_{\mathbf{x}}$ -LOCALIZATION	152
	by Donald M. Davis, Mark Mahowald and Haynes Miller	
VII	THE GEOMETRIC REALIZATION OF THE CHROMATIC RESOLUTION by Douglas C. Ravenel	168
VIII	EQUIVALENCES BETWEEN HOMOTOPY THEORIES OF DIAGRAMS by W. G. Dwyer and D. M. Kan	180
IX	THE ROLE OF THE STEENROD ALGEBRA IN THE MOD 2 COHOMOLOGY OF A FINITE H-SPACE by James P. Lin	206
X	MAPS BETWEEN CLASSIFYING SPACES by A. Zabrodsky	228
XI	GENERIC ALGEBRAS AND CW COMPLEXES by David J. Anick	247

viii CONTENTS

XII	DEFORMATION THEORY AND THE LITTLE CONSTRUCTIONS OF CARTAN AND MOORE by James Stasheff	322
XIII	FREE $(\mathbb{Z}_2)^3$ - ACTIONS ON FINITE COMPLEXES by Gunnar Carlsson	332
XIV	EQUIVARIANT CONSTRUCTIONS OF NONEQUIVARIANT SPECTRA by J. P. May	345
XV	A DECOMPOSITION OF THE SPACE OF GENERALIZED MORSE FUNCTIONS by Ralph L. Cohen	365
XVI	ALGEBRAIC K-THEORY OF SPACES, CONCORDANCE AND STABLE HOMOTOPY THEORY by Friedhelm Waldhausen	392
XVII	THE MAP BSG $\rightarrow$ A(*) $\rightarrow$ QS <sup>0</sup> by Marcel Bokstedt and Friedhelm Waldhausen	418
XVIII	VECTOR BUNDLES, PROJECTIVE MODULES AND THE K-THEORY OF SPHERES by Richard G. Swan	432
XVIX	LIMITS OF INFINITESMAL GROUP COHOMOLOGY by Eric M. Friedlander and Brian J. Parshall	523
XX	ALGEBRAIC K-THEORY OF GROUP SCHEME ACTIONS by R. W. Thomason	539