CONTENTS

I. Simple Homotopy Theory and G-actions

Shôrô Araki — On the Equivariant Whitehead Groups and G-expansion Categories	1
Katsuo Kawakubo — Stable Equivalence of G-manifolds	27
Takao Matumoto and Masahiro Shiota — Unique Triangulation of the Orbit Space of a Differentiable Transformation	21
Group and its Applications	41
Mikiya Masuda — The Kervaire Invariant of Some Fiber Homo-	
topy Equivalences	57
II. Classifying Spaces and Characteristic Classes	
Hiroshi Toda — Cohomology of Classifying Spaces	75
Masana Harada and Akira Kono — Cohomology Mod p of the 4-connected Cover of the Classifying Space of Simple Lie	
Groups	109
Katsuyuki Shibata — Classifying Space Constructions in the Rational Homotopy Theory	123
Akinori Matsui and Hajime Sato — Stiefel-Whitney Homology	
Classes and Riemann-Roch Formula	129
Shigeyuki Morita — Characteristic Classes of T^2 -bundles	135
III. Topology of Manifolds	
Mitsuyoshi Kato — On Uniformizations of Orbifolds Tomoyoshi Yoshida — On 3-dimensional Bounded Cohomology	149
of Surfaces	173
Akio KAWAUCHI — On the Signature Invariants of Infinite Cyclic Coverings of Even Dimensional Manifolds	177
Makoto SAKUMA — Non-free-periodicity of Amphicheiral Hyper-	
bolic Knots	189

IV. Homotopy Problem

195
231
237
259
273
287
293
311
319