

Foreword	vii
A list of papers dedicated to Professor Matsushima on his 60th birthday, but not included in this volume	x
ON SOME GENERALIZATION OF B. KOSTANT'S PARTITION FUNCTION Ichiro Amemiya, Nagayoshi Iwahori, and Kazuhiko Koike	1
STABLE REAL COHOMOLOGY OF ARITHMETIC GROUPS II Armand Borel	21
VECTOR FIELDS AND COHOMOLOGY OF G/B James B. Carrell	57
A SIMPLE PROOF OF FROBENIUS THEOREM Shiing-shen Chern and Jon G. Wolfson	67
ON FLAT SURFACES IN S_1^3 AND H_1^3 Marcos Dajczer and Katsumi Nomizu	71
THE COMPLEX LAPLACE-BELTRAMI OPERATOR CANONICALLY ASSOCIATED TO A POLARIZED ABELIAN VARIETY Jun-ichi Hano	109
ON THE ORDERS OF THE AUTOMORPHISM GROUPS OF CERTAIN PROJECTIVE MANIFOLDS Alan Howard and Andrew John Sommese	145
HOMOGENEOUS SPACES FROM A COMPLEX ANALYTIC VIEWPOINT A. T. Huckleberry and E. Oeljeklaus	159
ON LIE ALGEBRAS GENERATED BY TWO DIFFERENTIAL OPERATORS Jun-ichi Igusa	187
CONFORMALLY-FLATNESS AND STATIC SPACE-TIME Osamu Kobayashi and Morio Obata	197
HOLOMORPHIC STRUCTURES MODELED AFTER COMPACT HERMITIAN SYMMETRIC SPACES Shoshichi Kobayashi and Takushiro Ochiai	207
GROUP COHOMOLOGY AND HECKE OPERATORS Michio Kuga, Walter Parry, and Chih-Han Sah	223
ON POISSON BRACKETS OF SEMI-INVARIANTS Hisasi Morikawa	267
SOME STABILITIES OF GROUP AUTOMORPHISMS Akihiko Morimoto	283
A NOTE ON COHOMOLOGY GROUPS OF HOLOMORPHIC LINE BUNDLES OVER A COMPLEX TORUS Shingo Murakami	301
PERIODIC POINTS ON NILMANIFOLDS Minoru Nakaoka	315
ISOGENIES AND CONGRUENCE SUBGROUPS M. S. Raghunathan	325
ON COMPACT EINSTEIN KÄHLER MANIFOLDS WITH ABUNDANT HOLOMORPHIC TRANSFORMATIONS Yusuke Sakane	337

SPECIAL VALUES OF ZETA FUNCTIONS ASSOCIATED WITH SELF-DUAL HOMOGENEOUS CONES Ichiro Satake	359
HESSIAN MANIFOLDS AND CONVEXITY Hirohiko Shima	385
INTRINSIC CHARACTERIZATION OF AFFINE ALGEBRAIC CONES Wilhelm Stoll	393
THE TANNAKA DUALITY THEOREM FOR SEMISIMPLE LIE GROUPS AND THE UNITARIAN TRICK Mitsuo Sugiura	405
PARALLEL SUBMANIFOLDS OF SPACE FORMS Masaru Takeuchi	429
ON HESSIAN STRUCTURES ON AN AFFINE MANIFOLD Katsumi Yagi	449