



CONTENTS

	PAGE
E. L. STITZINGER: Ascendancy in locally solvable, ideally finite Lie algebras ..	1
S. TÔGÔ: Minimal conditions for weak subideals of Lie algebras .....	5
T. MIYAKAWA: On the initial value problem for the Navier-Stokes equations in $L^p$ spaces .....	9
K. OHTSUKA: Generalized $J$ -integral and three dimensional fracture mechanics I .....	21
S. MATSUMOTO: Discrete series for an affine symmetric space .....	53
BUI HUY QUI: Bernstein's theorem and translation invariant operators .....	81
H. YAMADA: Relative invariants of prehomogeneous vector spaces and a reali- zation of certain unitary representations I .....	97
Y. MIZUTA: Boundary limits of Green potentials of order $\alpha$ .....	111
Y. HIRANO: Regular modules and $V$ -modules .....	125
M. EGUCHI and K. KUMAHARA: Fourier transforms and elementary solu- tions of invariant differential operators on homogeneous vector bundles over compact homogeneous spaces .....	143
H. DOI: A classification of certain symmetric Lie algebras .....	173
H. MATSUSHIMA, K. OKAMOTO and T. SAKURAI: On a certain class of irreducible unitary representations of the infinite dimensional rotation group I .....	181
H. YOSHIDA: Asymptotic values of meromorphic functions of smooth growth .....	195
Y. KASHIWAGI: Lie algebras which have an ascending series with simple factors .....	215