NAGOYA MATHEMATICAL JOURNAL

VOL. 53

May 1974

PUBLISHED BY
DEPARTMENT OF MATHEMATICS, FACULTY OF SCIENCE
NAGOYA UNIVERSITY

Correspondences concerning subscription, and back issues of the journal should be addressed to

KINOKUNIYA BOOK-STORE CO., LTD. 17-7 Shinjuku 3-chome, Shinjuku-ku TOKYO 160-91 JAPAN

or

KINOKUNIYA BOOK STORES
OF AMERICA CO., LTD.
West Bldg., Japanese Cultural and
Trade Center
1581 Webster St.,
San Francisco, CALIFORNIA 94115,
U.S.A.

The annual subscription price for 1974 is \$83.20

NAGOYA MATHEMATICAL JOURNAL

VOL. 53

May 1974

Edited by

TAKEYUKI HIDA, NOBORU ITO, TOMIO KUBOTA (Managing Editor), HIDEYUKI MATSUMURA, HISASI MORIKAWA, AKIHIKO MORIMOTO, KIYOSHI NOSHIRO, KATUZI ONO, YOSHIHIRO SHIKATA, KÔSAKU YOSIDA

PUBLISHED BY
DEPARTMENT OF MATHEMATICS, FACULTY OF SCIENCE
NAGOYA UNIVERSITY

Nagoya Mathematical Journal is, in principle, the official organ of the Department of Mathematics, Nagoya University, designed solely for the publication of research papers. However, some invited papers and other original papers in mathematics from all over the world are also regularly published in Nagoya Mathematical Journal. Currently, 4 volumes are published each year.

All manuscripts should be typewritten in English, French, or German with sufficient space between lines, and special letters such as bold-face, German, Greek, and script should be clearly marked. All single letters used in formulas will appear in italic, and mathematical symbols will appear in the standard style usual for mathematical literature. Therefore, it is not required to mark such letters and symbols. Instructions which conflict with the general printing rules of the journal will not be accepted. For example, each paragraph title should appear in bold-face. Good reproductions of a typewritten manuscript are acceptable.

As soon as we receive a manuscript, a receipt will be sent to the author. When a manuscript has been sent to a referee, the author will receive another notice. These receipts and notices, however, do not mean anything regarding the acceptability of the paper for publication. If the editorial committee has decided to accept a paper, the author will receive a notice containing the number of the volume in which the paper will appear.

Each author, as well as each co-author, will have 100 reprints, while only one set of proof will be prepared per paper for proof-reading by the author(s). Therefore, a joint paper must carry instructions as to whom the proof should be sent. Attached to the proof, an order form will be sent to the author for the additional reprints which are available at approximately 3ϕ per page.

The actual business of the Nagoya Mathematical Journal is performed by the managing editor with the cooperation of editors residing in Nagoya.

The manuscript and general correspondence should be addressed to: Managing editor, Nagoya Mathematical Journal, Department of Mathematics, Faculty of Science, Nagoya University, Chikusa-ku, Nagoya, 464, Japan.

CONTENTS

Classification of homogeneous bounded domains of lower dimension S. Kaneyuki and T. Tsuji	1
Finite groups of conjugate rank 2	47
The scheme of Lie sub-algebras of a Lie algebra and the equivariant cotangent mapW.J. HABOUSH	59
Lipeomorphisms close to an Anosov diffeomorphism	71
On the behaviour of functions with finite weighted dirichlet integral near the boundary	83
Normal subgroups of finite multiply transitive permutation groups	103
On a certain algebra associated with a polarized algebraic variety	109
Sur la famille sous-ordonnée au noyau de convolution de hunt II	115
On the theorem of Kishi for a continuous function-kernel I. HIGUCHI and M. ITÔ	127
The three-arc and three-separated-arc properties of meromorphic functions	137
Banach spaces of bounded solutions of $\varDelta u = Pu$ $(P \ge 0)$ on hyperbolic riemann surfaces M. Nakai	141
Optimal control of ultimately bounded stochastic processes Y. MIYAHARA	157

ii contents

Dedekind sums for a fuchsian group, IIL. J. GOLDSTEIN	171
A characterizations of unitary operators induced by nonsingular transformations and its applications	189
On the conductor of an elliptic curve with a rational point of order 2	
On a certain poisson formulaJ. IGUSA	211
Errata for Dedekind sums for a Fuchsian group, I	235