## **PROCEEDINGS**

#### OF THE

## JAPAN ACADEMY

# SERIES A MATHEMATICAL SCIENCES

#### **CONTENTS**

Papers Communicated:-	Papers	Comm	unicated	
-----------------------	--------	------	----------	--

Page
T. HISAMITSU: On the Existence and the Asymptotic Behavior of the Global Solution of a Nonlinear Variational Inequality of Evolution
Y. SHIZUTA, M. MAEJI, A. WATANABE, and S. KAWASHIMA: Regularity
of the 90-velocity Model of the Boltzmann Equation 171
T. Noda: The Aitken-Steffensen Formula for Systems of Nonlinear
Equations. III
D. G. PARK: Initial-boundary Value Problem for Parabolic Equation
in $L^{\scriptscriptstyle 1}$
S. KAWASHIMA and Y. SHIZUTA: Magnetohydrodynamic Approximation
of the Complete Equations for an Electromagnetic Fluid, II 181
S. YAMASHITA: Area Integrals for Normal and Yosida Functions 185
Vo Van Tan: On Compactifiable Strongly Pseudoconvex Surfaces 189
N. KUROKAWA: Zeta Functions of Analytic Rings via Euler Products
S. BANDO and T. MABUCHI: On Some Integral Invariants on Complex
Manifolds. I
Y. OHKUBO: Discrepancy with respect to Weighted Means of Some
Sequences
M. INOUE: On Artinian Modules
Y. Suzuki: Simple Proof of Fermat's Last Theorem for $n=4$ 209
D 11 1 - MOONT O 1 3
Proceedings at the 799th General Meeting

Published by the Japan Academy Ueno Park, Tokyo

### THE JAPAN ACADEMY

(THE IMPERIAL ACADEMY OF JAPAN TILL DEC., 1947)

PRESIDENT: Hiromi ARISAWA

SECRETARY-GENERAL: Kenjiro KIMURA

CHAIRMAN OF SECTION I: Yoshitaro WAKIMURA

CHAIRMAN OF SECTION II: Seiji KAYA

#### PUBLICATION COMMITTEE

CHAIRMAN: THE SECRETARY-GENERAL

Setsuro Ebashi (Pharmacology and Tsunahiro Kikui (Law of Civil

Biophysics) Procedure)

Yoshio Fujita (Astronomy) Fumio Nakajima (English Linguistics)

Shinji Fukui (Mechanical Engineering) Kiyoshi Takewaki (Endocrinology)

Naohide Hiratsuka (Plant Pathology and Mycology) Takao Tsuchiya (Economic History of Japan)

Teiji Ichiko (Japanese Literature) Yuzo Yamada (Economics)

Yasuji Katsuki (Physiology) Kisaburo Yokota (Public International

Masaakira Katsumoto (Civil Law and Copyright Law) Kôsaku Yosida (Mathematics)

#### Notes

The papers printed in the Proceedings are generally résumés, while the publication of the full texts is left to the respective authors' choice.

All communications relating to the Proceedings should be addressed to the Secretary-General at the Office of the Academy, Ueno Park, Tokyo, 110.

Those who desire for particular articles may apply for their reprints to the respective authors.

Agents: Maruzen Co. Ltd., 3-10, Nihonbashi 2 Chome, Chuo-ku, Tokyo, 103