

Memoirs of the
FACULTY OF ENGINEERING
KYOTO UNIVERSITY

DECEMBER XXIV PART 4

DECEMBER 1962

Published by
KYOTO UNIVERSITY
KYOTO, JAPAN

MEMOIRS OF THE FACULTY OF ENGINEERING
KYOTO UNIVERSITY

VOLUME XXIV

PART 4

DECEMBER 1962

CONTENTS

Tatsuo TOKUOKA: <i>Uniqueness Criterion of Deformation of Voigt Type Viscoelastic Body.</i>	367
Tatsuo TOKUOKA: <i>Complex Representation of Basic Equations in Plasticity.</i>	371
Yoshio HIRAMATSU; Junichi KOKADO and Kunzo AMANO: <i>Estimation of the Temperature and Humidity of an Underground Air Current.</i>	377
Shigeru MUKAI and Takahide WAKAMATSU: <i>Electrochemical Study on Flotation.</i>	389
Yotaro MURAKAMI, Osamu KAWANO and Hideaki TAMURA: <i>Transmission Electron Microscopic Investigation on Recrystallization and Precipitation of Magnesium and Magnesium Alloys.</i>	411
Makoto HARADA, Kikuo ARIMA, Wataru EGUCHI and Shinji NAGATA: <i>Micro-Mixing in a Continuous Flow Reactor (Coalescence and Redispersal Models).</i>	431
Yoshikazu SAWARAGI and Hiroshi FUKAWA: <i>Studies on the Synthesis of Complete Finite-Settling-Time Systems under the Minimum Integrated-Square Sample Error and the Minimum Quadratic Control Area Criteria.</i>	447
Yoshikazu SAWARAGI, Yoshifumi SUNAHARA and Takashi SOEDA: <i>Statistical Studies on the Response of Non-Linear Time-Variant Control Systems Subjected to a Suddenly Applied Stationary Gaussian Random Input.</i>	465
Masaya YAMAGUTI: <i>On the Global Solution of the Cauchy Problem for some Non-Linear Hyperbolic Equations.</i>	482
Taizo SAWAMURA and Hideo HANAFUSA: <i>Stability of a Servomechanism Operated by PWM Mode.</i>	488
Michiyoshi KUWAHARA and Kazumasa HIRAI: <i>Self-excited Oscillation of Relay Servomechanism with Coulomb Friction and its Graphic Solution.</i>	508

This memoirs is issued quarterly by the University to publish the original contributions to engineering science made or communicated by the members of the faculty. The faculty consists of following departments:

Dept. of Civil Engineering	Dept. of Aeronautical Engineering
Dept. of Mechanical Engineering	Dept. of Nuclear Engineering
Dept. of Electrical Engineering	Dept. of Sanitary Engineering
Dept. of Mining Engineering	Dept. of Applied Mathematics and Physics
Dept. of Metallurgy	Dept. of Precision Mechanics
Dept. of Industrial Chemistry	Dept. of Synthetic Chemistry
Dept. of Architecture	Dept. of Electrical Engineering, II
Dept. of Fuel Chemistry	Dept. of Metal Science and Technology
Dept. of Chemical Engineering	Dept. of Mechanical Engineering, II
Dept. of Polymer Chemistry	Automation Research Laboratory
Dept. of Electronics	Ionosphere Research Laboratory

All communications regarding the memoirs should be addressed to the dean of the faculty,

Vol. XXIV, Part 4

December 1962.

昭和三十七年十二月十二日 印刷
昭和三十七年十二月二十八日 発行

編集兼発行者 京都大学工学部

印刷者 小林 積 造
大阪市福島区亀甲町二ノ六二

印刷所 日本印刷出版株式会社
大阪市福島区亀甲町二ノ六二