

Memoirs of the
FACULTY OF ENGINEERING
KYOTO UNIVERSITY

VOLUME XXXVI PART 4

OCTOBER 1974

Published by
KYOTO UNIVERSITY
KYOTO, JAPAN

MEMOIRS OF THE FACULTY OF ENGINEERING
KYOTO UNIVERSITY

VOLUME XXXVI

PART 4

OCTOBER 1974

CONTENTS

Yasunari TAKANO and Teruaki AKAMATSU <i>A Numerical Analysis on the Ionized Boundary Layer along a Shock Tube Side Wall</i>	333
Ichiro KONISHI, Naruhito SHIRAISHI, Takeo TANIGUCHI and Hitoshi FURUTA <i>An Application of Network-Topological Concepts to the Design of Framed Structures</i>	348
Kenjiro OKAMURA and Hajime YAMASHINA <i>Analysis of the Effects of Buffer Storage Capacity</i>	369
Tatsuo TOKUOKA <i>Perturbation of Sounds in Liquid Helium II by Relative Motion between Super and Normal Fluids</i>	398
Yoshikazu YAMADA and Hirokazu TAKEMIYA <i>Random Response Analysis of a Long-span Suspension Bridge Tower and Pier with Consideration of Nonlinear Foundation</i>	405
Masaharu YOSHIDA and Jūrō UMOTO <i>Two Dimensional Analysis of MHD Generator by Means of Equivalent Circuit</i> ...	427
Jun-ichi KOKADO and Yoshitomi ONODA <i>On Longitudinal Curvature and Transition of Strain of Sheet Steel in Forming a Groove with Wide Flanges by Cold Roll Forming</i>	443
Hiroyuki KAMEDA <i>On Estimation of the Maximum Structural Response to Random Earthquake Motion from Response Envelope</i>	458
Takeshi KOIKE, Ryuji IZUNAMI and Hiroyuki KAMEDA <i>Hysteresis Model of Structural Materials under Repeated Elasto-Plastic Deformation</i>	473

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 Sanitary Engineering
Dept. of Mechanical Engineering	Dept. of Applied Mathematics and Physics
Dept. of Electrical Engineering	Dept. of Precision Mechanics
Dept. of Mineral Science and Technology	Dept. of Synthetic Chemistry
Dept. of Metallurgy	Dept. of Electrical Engineering, II
Dept. of Industrial Chemistry	Dept. of Metal Science and Technology
Dept. of Architecture	Dept. of Mechanical Engineering, II
Dept. of Hydrocarbon Chemistry	Dept. of Transportation Engineering
Dept. of Chemical Engineering	Dept. of Architectural Engineering
Dept. of Polymer Chemistry	Dept. of Information Science
Dept. of Electronics	Automation Research Laboratory
Dept. of Aeronautical Engineering	Ionosphere Research Laboratory
Dept. of Nuclear Engineering	Plasma Physics Laboratory

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

Vol. XXXVI, Part 4

October 1974.

昭和50年3月19日 印刷

昭和50年3月25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2ノ62

印刷所 日本印刷出版株式会社
大阪市福島区亀甲町2ノ62