Memoirs of the FACULTY OF ENGINEERING KYOTO UNIVERSITY

VOLUME XXXIII PART 3 JULY 1971

> Published by KYOTO UNIVERSITY KYOTO, JAPAN

MEMOIRS OF THE FACULTY OF ENGINEERING KYOTO UNIVERSITY

VOLUME XXXIII

PART 3

JULY 1971

CONTENTS

Yoshiji NIWA and Ken-ichi HIRASHIMA: Stress Distribution for Anisotropic	
Elastic Plate Containing Two or More Arbitrary Elliptical Holes	101
Yoshiji NIWA, Shoichi KOBAYASHI and Takuo FUKUI: Effects of Couple Stresses	
on Stress Distributions in a Disc Specimen Subjected to Diametral Compression	
•••••••••••••••••••••••••••••••••••••••	118
Takao OZAWA: A Procedure of Graph-partitioning for the Mixed Analysis of Elec-	
trical Networks	128
Koshi Okumura and Akira Kishima: 1/3-harmonic Oscillation in Three-phase	
Circuit with Series Condensers	134
Hiroshi Oshiyama: Analysis of the Toroidal Magnetic Field in the Heliotron C	
Device	151
Kunio HIGASHI, Toru SAITO and Hideo DOI: Optimum Design of Step Cascades	
for Uranium Enrichment by Gaseous Diffusion Process	163
Kazuho Sone, Nobuyoshi Natsuaki and Fumio Fukuzawa: Back-scattering	
of Fast Protons from Silicon Single Crystals	174
Tatsuo TOKUOKA: Generalized Prandtl-Reuss Plastic Materials I	186
Tatsuo TOKUOKA: Generalized Prandtl-Reuss Plastic Materials II	193
Tatsuo TOKUOKA: Generalized Prandtl-Reuss Plastic Materials III	201
Masanaga KUNUGI and Hiroshi JINNO: Simulation Analysis of the Homogenisa-	
tion Process in Glass Melting through Agitation and Diffusion Processes	211

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 Mechanical Engineering	Dept. of Nuclear Engineering Dept. of Sanitary Engineering
Dept. of Electrical Engineering	Dept. of Applied Mathematics and Physics
Dept. of Mineral Science and	Dept. of Precision Mechanics
Ťechnology	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
	Plasma Physics Laboratory

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

Vol. XX	CXII	I, Pa	ort 3 July 1971.	
昭和46年 9 月25日 印刷 昭和46年 9 月30日 発行				
編集ま	ŧ 発行	亍者	京都大学工学部	
即	刷	者	小林積造 大阪市福島区亀甲町 2 / 62	
印	刷	所	日本印刷出版株式会社 大阪市福島区亀甲町2/62	

-