ISSN 0023-6063

Memoirs of the FACULTY OF ENGINEERING KYOTO UNIVERSITY

VOLUME XLI PART 4 OCTOBER 1979

Published by KYOTO UNIVERSITY KYOTO, JAPAN

MEMOIRS OF THE FACULTY OF ENGINEERING KYOTO UNIVERSITY

VOLUME XLI

PART 4

OCTOBER 1979

CONTENTS

Atsushi Окамото	
Theoretical Aspects of the Orientation Problem for Stereo MSS Data Coverage	335
Chikasa UENOSONO, Kazuhiro KANEKO and Kazimierz KOSMOWSKI	
Reliability Aspect of Application of DDC Computer in Power Plants	348
Kohshi Okumura and Akira Kishima	
Analysis of Nonlinear Oscillations in Three-phase Circuits by Discrete Fourier	
Transform	356
Natsuo HATTA and Jun-ichi Kokado	
Analysis of Stress in Block during Rolling by Visioplasticity Method	374
Yoshimi NAGAO and V.M. NAIR	
Decision Analysis in a Fishing Port Project Using Multi-attribute Utility Theory	
	392
Muneaki Hayashi, Yasuharu Ohsawa and Minoru Ohta	
Optimum Feedback Control of AC-DC Parallel Transmission System	426
Michio Tomita and Fumio Fukuzawa	
Application of $\mathbf{E} \times \mathbf{B}$ Field to a Side-Extracting PIG Ion Source	446
Hiromu Isa, Muneaki Hayashi and Chikasa Uenosono	
Space Charges Produced in a Rod-to-Plane Gap under Impulse Voltages	450
Nobuo Sannomiya	
A Method for Solving Mixed-Integer Linear Programming Problems with Angular	
Structure	462
Naruhito Shiraishi and Hitoshi Furuta	
Safety Analysis and Minimum-Weight Design of Rigid Frames Based on Re-	
liability Concept	474
Naruhito Shiraishi and Hitoshi Furuta	
On Geometry of Truss	498
Takeshi Tamura	
A Study on the Mechanism of Consolidation	518
François Delebecque and Norihiko Adachi	
On Some Estimation Problems Arising in Environmental and Pollution Models	536
Kohnosuke Nishida, Masanobu YAMAKAWA and Tsuneo Honda	
Experimental Investigations on the Combined Actions of Components Mixed in	
Odorous Gas	552
Kazuaki Ando and Bunji Kondo	
Matrix Polynomial Expansion of a Power of a Matrix	566

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 Sanitary Engineering
Dept. of Applied Mathematics and Physics
Dept. of Precision Mechanics
Dept. of Synthetic Chemistry
Dept. of Electrical Engineering, II
Dept. of Metal Science and Technology
Dept. of Transportation Engineering
Dept. of Architectural Engineering
Dept. of Information Science
Dept. of Engineering Science
Automation Research Laboratory
Ionosphere Research Laboratory
Ion Beam Engineering Experimental
Laboratory

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

Vol. X	LI I	Part	4 October 1979.		
昭和55年2月20日 印刷 昭和55年2月29日 発行					
編集家	東発行	亍者	京都大学工学部		
印	刷	者	小 林 積 造 大阪市福島区吉野1丁目2-7		
印	刷	所	日本印刷出版株式会社 _{大阪市福島区吉野1丁目27}		