Memoirs of the FACULTY OF ENGINEERING KYOTO UNIVERSITY

VOLUME XLII PART 4
OCTOBER 1980

Published by
KYOTO UNIVERSITY
KYOTO, JAPAN

MEMOIRS OF THE FACULTY OF ENGINEERING KYOTO UNIVERSITY

VOLUME XLII PART 4 OCTOBER 1980

CONTENTS

Hidekiyo Itakura and Yoshikazu Nishikawa	
A Class of Linear Multiple Regression Techniques for Ordered	
Attributes	335
Chikaosa Tanimoto and Shojiro Hata	
Fundamental Concept of Designing Tunnel Supports in Consid-	
eration of Elasto-plastic and Strain Softening Behavior of	
Rock	349
Toshikazu Kimura, Katsuhisa Ohno and Hisashi Mine	
Approximate Analysis of Optimal Operating Policies for a	
GI G 1 Queueing System ·····	377
Nobuo Sannomiya and Masayuki Tsukabe	
A Decomposition Method for Mixed-Integer Linear Program-	
ming Problems with Angular Structure·····	391
Hisashi Mine, Masao Fukushima and Yong-Joon Ryang	
On Solving a Certain Multi-Parametric Nonlinear Programming	
Problen ····	404
Yoshio Sone	
A Uniformly Convergent Expression of the Magnetic Field	
Induced by a Helical Coil	413
Tatsuo Nogi and Masatoshi Kubo	
ADINA Computer I	
I. Architecture and Theoretical estimates ·····	421
Kazuaki Ando	
On the Practically Reachable Subspace of the Discrete-Time	
Systems	440

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 Nuclear Engineering Dept. of Mechanical Engineering Dept. of Sanitary Engineering Dept. of Applied Mathematics and Physics Dept. of Electrical Engineering Dept. of Mineral Science and Dept. of Precision Mechanics 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 Transportation Engineering Dept. of Hydrocarbon Chemistry Dept. of Architectural Engineering Dept. of Chemical Engineering Dept. of Information Science Dept. of Polymer Chemistry Dept. of Engineering Science Dept. of Electronics Automation Research Laboratory Dept. of Aeronautical Engineering Ionosphere Research Laboratory Ion Beam Engineering Experimental Laboratory

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

