# Memoirs of the FACULTY OF ENGINEERING KYOTO UNIVERSITY 

VOLUME XXXIII PART 1<br>JANUARY 1971

Published by KYOTO UNIVERSITY KYOTO, JAPAN

# MEMOIRS OF THE FACULTY OF ENGINEERING KYOTO UNIVERSITY 

VOLUME XXXIII

PART 1
JANUARY 1971

## CONTENTS

> Kozo Amano and Yoshitaka Aoyama: An Equilibrium Model of Commuter
> Flow in Urbanized Area
Nobuatsu Watanabe, Yoshiyuki Koyama, Atsuyoshi Shibuya and Kiyoshi Kumon: Reaction of Fluorine and Carbon and Properties of Their Com- pounds ..... 15
Takaaki Nishida: A Note on an Existence of Conditionally Periodic Oscillation in a one-dimensional Anharmonic Lattice . ..... 27

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 Electrical Engineering | Dept. of Applied Mathematics and Physics |
| Dept. of Mineral Science and | Dept. of Precision Mechanics |
| Technology | Dept. of Syntetic 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.

印 刷 所 日本印刷出版株式会社


