

*Memoirs of the*  
FACULTY OF ENGINEERING  
KYOTO UNIVERSITY

VOLUME LI PART 2

APRIL 1989

Published by  
KYOTO UNIVERSITY  
KYOTO, JAPAN

MEMOIRS OF THE FACULTY OF ENGINEERING  
KYOTO UNIVERSITY

VOLUME LI

PART 2

APRIL 1989

CONTENTS

Natsuo HATTA, Jun-ichi KOKADO, Ryuji ISHII and Hitoshi FUJIMOTO <i>Theoretical Model of Two-Phase Flow in a Nozzle and Its Application to Numerical Experiments for Mist Flow</i> .....	73
Satoshi ICHIKAWA and Hideto OHNISHI <i>Traveling Wave Characteristic of Induced Voltage on Buried Cable by Direct Lightning</i> .....	108
Keisuke SAWADA, Eiji SHIMA and Takuya MATSUDA <i>A TVD Scheme using Roe's Flux and the Ambient Boundary Condition</i> .....	124
Tatsuo NOGI <i>ADENA Computer III</i> .....	135

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 Precision Machanics
Dept. of Mechanical Engineering	Dept. of Synthetic Chemistry
Dept. of Electrical Engineering	Dept. of Electrical Engineering, II
Dept. of Mineral Science and Technology	Dept. of Metal Science and Technology
Dept. of Metallurgy	Dept. of Transportation Engineering
Dept. of Industrial Chemistry	Dept. of Architectural Engineering
Dept. of Architecture	Dept. of Information Science
Dept. of Hydrocarbon Chemistry	Dept. of Engineering Science
Dept. of Chemical Engineering	Div. of Molecular Engineering
Dept. of Polymer Chemistry	Div. of Applied Systems Science
Dept. of Electronics	Automation Research Laboratory
Dept. of Aeronautical Engineering	Ion Beam Engineering Experimental Laboratory
Dept. of Nuclear Engineering	Research Laboratory for Control of Environmental Micropollutans
Dept. of Environmental & Sanitary Engineering	Research Laboratory of Carbonaceous Resources Conversion Technology
Dept. of Applied Mathematics and Physics	

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

Vol. LI, Part 2

April 1989.

平成元年 4 月 25 日 印刷

平成元年 4 月 30 日 発行

編集兼発行者 京 都 大 学 工 学 部

印 刷 者 江 戸 外 一 郎

印 刷 所 共 同 印 刷 工 業 株 式 会 社  
京都市右京区西院久田町78