

Research Reports of the Faculty of Engineering,
Mie University

Vol. 14

December 1989

CONTENTS

Original Papers

- Masaru USAMI, Tetsuo FUJIMOTO and Seizo KATO :
Direct Monte Carlo Calculation on Heat Transfer
through a Rarefied Gas 1
- Koreaki TAMAKI, Jippeï SUZUKI and Minoru TANAKA :
Stress-Induced Phosphorus-Segregation and Intergranular
Cracking in Welded Zone of 1Cr-1/2Mo Steel 9
- Kazuhiro KUNO and Yohzoh OKUMURA :
Influence of Various Factors on Railway Noise
and Vibration23
- Tamio ENDO, Nobuhiko ITOH, Yasushi OKINO, Yoshinori SHIMADA,
Hirohito WATANABE and Koichi SUGIYAMA :
Calculations of Energy Shift of the Conduction
Band-Edge in Doped and Compensated GaP39
- Shosuke MORINO, Jun KAWAGUCHI and Chihiro YASUZAKI :
Experimental Study on Elasto-Plastic Behavior of
Steel Reinforced Concrete Space Frames57
- Yasuo TANIGAWA, Hiroshi MORI, Kenji WATANABE and Masayasu MIWA :
Fluidity Simulation of Fresh Concrete in Tapered Pipe83

Review

- Hiroyasu SATO :
Photodissociation of Simple Molecules in the Gas Phase
Supplement III 93
- Abstracts of Papers(Published in 1988)117
- Abstracts of Books and Reviews(Published in 1988)159