

CONTENTS

JOURNAL OF THE JAPAN WELDING SOCIETY

Vol.72 No.2 March 2003

Essay

Engineers and EthicsHORIKAWA Kohsuke 3

Engineering Data Sheet 5

Technical Information — Special Issue — **「High Productivity Welding Processes」**

Preface for Special Issue on High Productivity Welding Processes { OSHIMA Kenji
SUGITANI Yuji 6

The-state-of-the-art and the subjects of high productivity welding processes { Technical Commission
on Welding Processes 7

Welding Materials KOSHIISHI Fusaki 16

Improvement of Welding Process Efficiency with Welding Power Source and Equipment MITA Tsuneo 20

Latest CAD/CAM·Systemization Technology in Welding
— CAD/CAM, Simulation, CAPM — KANJO Yoshihiro 26

Sensing/Monitoring Techniques { TAKI Keishi
ASAI Satoru 30
KUBO Katsumi

Serial Lecture Paper

Friction Welding of Plastics TAKASU Nobuo 34

Lecture for Practical Engineer

Fundamental Lecture on Technique of Stress Measurement Using Magneto-Strictive
Effect ABUKU Seiichi 38

Experimental Study on Applicability of Magneto-Strictive Effect to Stress
Measurement of Steel Bridges { MURAI Ryosuke
YANAGISAWA Eiichi 42
OKA Shunzo
NAKAYA Shinji

Reports on the International Conference

The IIW Asian Pacific International Congress SUGITANI Yuji 47

WTIA 50th Annual Conference & the 12th International TWI Computer in Welding and
Manufacturing ASAI Satoru 48

Report concerning International Welding/Joining Conference-Korea 2002 MORI Hiroaki 50

WELNET for Young Members..... 53

Calendar of Event 56

Society Announcements 57
