CONTENTS

JOURNAL OF THE JAPAN WELDING SOCIETY
Vol.74 No.4 June 2005

The Address by the President in General Meeting ····· USHIO Masao 3
Welcome to Fukui ····· TAKESHITA Kunimasa 4
Eaasy
What One Newcomer from Business World has seen at University ····· SATO Takehiko 6
Technical Information — Special Issue —
A Preface ····· INOUE Yoshiaki, SAKAGUCHI Syuichi, KITAGAWA Shoihi 8
Structural Monitoring Using Fiber-Optic Sensors ····· MURAYAMA Hideaki 9
Monitoring Technology by Acoustic Emission ····· ENOKI Manabu 13
Local Patrol Information System Using Wearable PC ····· OGAWA Kenji 17
Development of Techniques for Improving Seismic Performance of Long Span Bridges ····· INOUE Koichi, NAKADE Osamu, MORISHITA Kunihiro, KODAKA Tomoyuki 21
Serial Lecture Paper
Development of New Steel Plate Posessing Self-Suppression Effect for Fatigue-Crack Propagation and Properties of Welded Joints ····· KONDA Noboru, FUJIWARA Kazuki, ARIMOCHI Kazushige, OONISHI Kazushi, YAMASHITA Masato 25
Lecture for Practical Engineer
Radical principle of Phased Array ····· YAMAMOTO Yuichiro 29
Fatigue Life Diagnosis of Steel Structures with Fatigue Damage Sensor ····· MURAGISHI Osamu 33
Spot Light
New Approach to Handing Down of Implicit Knowledge by Analytic Simulation ····· TAKECHI Shoji 37
Technical Commitee News ····· 41
WELNET for Young Members ····· 44
Calendar of Event ····· 45
Society Announcements ····· 46
Society News ····· 48