

CONTENTS

JOURNAL OF THE JAPAN WELDING SOCIETY Vol.81 No.7 October 2012

Essay

Asian Wind-Expectation of Japanese Welding Technology	HARASAWA Hideaki	3
---	------------------	---

Let's Join Together, Engineers!

Development of Welding Process for Austenitic Stainless Steel Refined Grain Size	TSUCHIYA Yumiko	6
---	-----------------	---

Technical Information — Special Issue —

New Measuring Methods Contributing to Welding Researches for the Next Generation	FUJII Hiromichi YAMAZAKI Kei KAWAKAMI Hiroshi MATSUSHITA Muneo	11
A Preface		
In-situ Observation of Weld Solidification using Two-dimensional Time-resolved X-ray Diffraction	YONEMURA Mitsuharu	12
Measurement of Weld Metal Temperature with an Immersion-type Optical-fiber Radiation Thermometer without Correcting Emissivity	UENO Yasuhiro ISHI-I Shinji YAMANAKA Zenkichi	17
Internal Residual Stress Measurement of Welding Area by Neutron Diffraction Method	SUZUKI Tamaki	22
Applied Technology by the High-end Infrared Camera	SHIBUYA Kiyoshi NIMURA Tomoaki	25

Practical Lecture — A Class in Joining & Welding —

Railway Rolling Stock(Design)	NAGAREKAWA Hiromitsu INA Yoshihiko MIYAMOTO Toshiharu TAKAI Hideo	29
Railway Rolling Stock (Materials)	OKADA Toshiya	38
Up-to-the-minute		
ISOPE2012	SUGIMOTO Kei	46
Report of 9th International Conference on Trends In Welding Research	TASHIRO Shinichi	47
Spot Light		
Egg of Welding	NAGATSUKA Kimiaki	50
WELNET for Young Members		
Report:The 1st young researcher group seminar and visitation in 2012	53	
Calendar of Event		
Society Announcements	56	
List of JWS Company Members	57	
	61	