CONTENTS

JOURNAL OF THE JAPAN WELDING SOCIETY
Vol.92 No.4 June 2023

The Address by the President in General Meeting .................................................. SAIDA Kazuyoshi 3
Essay
Looking Back on My Welding and Joining Research .............................................. HIROSE Akio 4
Let’s Join Together, Engineers!
Development of Submerged Arc Welding Flux for Construction ....................... YOKOO Tomomi
KUWABARA Naoya
NAKAZAWA Hiroshi
KOJIMA Kazuhiro 7

Technical Information — Special Issue —
The Latest Technical Trends in Non-Destructive Inspection

A Preface ......................................................................................................................... OIHASHI Ryoji
HONMA Yuta
YAMAZAKI Yousuke
MINEMURA Shinji 12
Introduction of Digital Radiography ........................................................................ JINGU Masaru 13
Recent Testing Method FMC/TFM (Full Matrix Capture/ ........................................ OHKOSHI Toshihiro 18
Total Focusing Method) Case Studies
Implementation of Robotic DR .................................................................................. MORI Koki 23
Evaluation Method of Spot Welding by Direct Current Potential ........................... IWATA Masahiro 27
Difference Method
Evaluation of Dissimilar Materials Joint Interface Using Ultrasonic ...................... YOKOTA Akiyoshi 32
Optical Interference Imaging

Fundamentals of Welding and Joining
Arc Plasma and Metal Transfer Phenomena in Gas Metal Arc Welding Process .......... OGINO Yosuke 36
Point Lesson of Experiments
An Improved Contact Angle Measurement and Simultaneous ......................... TAKAHASHI Kunio 46
Measurement of Liquid Surface Tension Using Sessile Drop
Up-to-the-minute
Report on 29th Symposium on “Microjoining and Assembly Technology ............... IWATA Yoshiharu 50
in Electronics”

Spot Light
— Egg of Welding — .................................................................................................. TAKENAKA Keisuke 53

WELNET for Young Members
Report : The 2nd young researcher group seminar in 2022 ..................................... 56
Calendar of Event ........................................................................................................... 58
Society Announcements ................................................................................................. 59

一般社団法人　溶接学会　2022・2023年度　理事・監事・幹事

理事（会長）才田一幸　理事　大畑充　理事　平野賢治
“（副会長）田中伸学　理事　小野聡　理事　藤井英俊
“　清水 弘之　理事　川本寛　理事　藤井光生
“　青山和浩　理事　佐藤裕　理事　山本元道
“　伊木聡孝　理事　大丸成一　監事　山岡弘人
“　石出孝　理事　坪井 電介　監事　渡邉博久
“　伊藤和博　理事　中谷光良　幹事　渡邉博久
“　恵良哲生　理事　林淳一　幹事　渡邉博久

Notice for photocopying
If you wish to photocopy any work of this publication, you have to get permission from the following organization to which licensing of copyright clearance is delegated by the copyright owner.
<All users except those in USA> Japan Academic Association for Copyright Clearance, Inc. (JAACC) 6-41 Akasaka 9-chome, Minato-ku, Tokyo 107-0052 Japan TEL: 81-3-3475-5618 FAX: 81-3-3475-5619 E-mail: info@jaacc.jp
<Users in USA> Copyright Clearance Center, Inc. 222 Rosewood Drive, Danvers, MA 01923 USA Phone: 1-978-750-8400 FAX: 1-978-646-8600