

Contents

Journal of the Japan Society
for Precision Engineering
Vol.83 No.2 February 2017

Special Issue

2016 JSPE Technology Award

Lecture

- Modeling of Human Inspection Mechanism for Instrumentation of Visual Inspection in Production Line—Development of “KIZKI” Consciousness Algorithm for Defects—
Hiroyasu KOSHIMIZU, Kimiya AOKI, Takuma FUNAHASHI,
Yasuhiko MIWATA and Hiroyuki ISHII 116
- Development of Real-Time Thermal Displacement Compensation System
Yuji SASAKI, Hideki IWAI, Yoshio WAKAZONO,
Yasumasa SAKURAI and Yuji OKA 121
- Image Restoration and Minute Defects Detection Technique Using Ultrasonic Image for Highly Integrated Electronic Devices
Kaoru SAKAI, Kenji NAKAHIRA, Masamichi UMEDA and Kaoru KITAMI 125

Episode

- Episode 1/Hiroyasu KOSHIMIZU, Kimiya AOKI, Takuma FUNAHASHI,
Yasuhiko MIWATA and Hiroyuki ISHII 129
- Episode 2/Hideki IWAI, Yuji SASAKI, Yoshio WAKAZONO,
Yasumasa SAKURAI and Yuji OKA 131
- Episode 3/Kaoru SAKAI 133

- My Experience in Precision Engineering
Koichi KITAJIMA 142
- Gravure
CHUKYO UNIVERSITY/RIKEN/Toyota Motor Corporation 113
JTEKT CORPORATION
Hitachi, Ltd./Hitachi Power Solutions Co., Ltd.
- Introduction to Precision Engineering
Nanofabrication and Manipulation Using Scanning Probe Microscopes/Futoshi IWATA 135
- Introduction of Laboratories
Laboratory for Advanced Machining Processes, Department of Mechanical Engineering, Kindai University 140

- JSPE Affiliate News 143
- International Conference Report 148
- JSPE Membership Guidance 150
- Information 149
- From the Lecture Committee 告 2-1

Paper

- Moving Object Proposal by Grouping with Motion Feature —————— 151
Teppei SUZUKI, Shota TAKAYAMA, Sho ISOBE, Makoto MASUDA and Yoshimitsu AOKI
- A Proposal of Near-Infrared Light Material Discrimination Method by PLS Regression Analysis and Informative Wavelength Selection —————— 158
Tetsuya HATTORI and Kunihito KATO
- Thermal Cleavage of Laminated Wafer by Laser Beam Irradiation —————— 167
—Crack Propagation Mechanism in Glass/Silicon Laminated Wafer—
Tatsuaki FURUMOTO, Kazuto FUJISAWA, Akira HOSOKAWA, Tomohiro KOYANO and Takashi UEDA
- Method for Slurry Flow Visualization in Polishing Pad Asperities —————— 173
Akira FUKUDA and Masahito MITARAI
- Load Capacity Evaluations of PA66 Gears Based on JIS B 1759 —————— 180
Ichiro MORIWAKI, Koki YONEDA, Morimasa NAKAMURA and Daisuke IBA

※The journal papers listed above are published on J-STAGE (Japan Science and Technology Information Aggregator, Electronic).
<https://www.jstage.jst.go.jp/browse/jjspe/-char/en/>
This printed material does not include these papers.