

**Special Issue**

## Manufacturing Technology to Contribute Performance and Safety of the Battery

**Review**

- **Progress of Lithium Ion Battery for Electric Vehicles** Gen INOUE .....301

**Lecture**

- **Coating Equipment for Realization of Carbon Neutrality** Naoki AWASHIMA .....305
- **Balancing Accuracy and Speed of the Pouring Process in Low Dew Point Environments**  
Kenichi HIRAI, Hiroshi MIYAZAWA and Shogo MIYAZAKI .....308
- **An Approach to Improving Formability of Exterior Package for Lithium Ion Secondary Battery with Forming Die for Aluminum Laminate** Naoya YOKOYAMA and Masahiro SANÔ .....313
- **Prototyping and Degradation Analysis Technology for Lithium-Ion Secondary Batteries**  
Takayuki TSUBOTA, Yoshiki HAYASHI and Masato NISHIUCHI .....318

- **My Experience in Precision Engineering**  
Hiroyasu IWABE .....330

- **Gravure & Interview**  
TOYO SYSTEM CO., LTD. ....297  
Hiroshi FUKUSHIMA/Hiroshi KUSANO  
Interview : Hirotaka MIWA

- **Introduction to Precision Engineering**  
Environment- and Surface-Sensitive Effects on Mechanical Properties and Machinability of Solid Material : Part 1—Rehbinder Effect and the Others—/Toshiaki KANEEDA .....322

- **Introduction of Laboratories**  
Man-machine Laboratory, Faculty of Mechanical Engineering, Institute of Science and Engineering, Kanazawa University .....328

- **Visit to Corporate Members**  
Seiko Holdings Corporation .....336

- JSPE Report ..... 338
- JSPE Affiliate News ..... 331
- From the Lecture Committee .....告 4-1
- Editor's Note .....告 4-10

## Paper

- Investigation of Method for Deriving Laser Cutting Conditions by Using Drilling Performance (2<sup>nd</sup> report) ————— 339  
—Use of Energy Efficiency after the Perforation—  
Yoshiki NAGANO
  
- Removal of Internal Defects in the LMD Overlay Layer by Laser Remelting ————— 345  
Ryo FUKUYAMA, Norio NAKAMURA and Toshitaka SATSUTA
  
- Surface Reaction Force Optimization of Contact Problems by Functionally Graded Lattice Structure ————— 352  
Kazutaka YANAGIHARA, Akira UENO and Akihiro TAKEZAWA

※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.