

Special Issue

Health and Job Supporting System Using Precision Engineering for Elderly People

Review

- **Assistive Technology of Health and Work in the Elderly** Toshiyo TAMURA 1177

Lecture

- **Wearable Sensing System for Activity and Lifestyle Support** Chika SUGIMOTO 1182

- **Portable Devices Measuring Daily Activities** Hikaru INOOKA 1186

- **Integration and Packaging Technologies for Small Biomedical Sensors**
Eiji HIGURASHI, Renshi SAWADA and Tadatomo SUGA 1190

- **Elderly Support for Manufacturing Activities** Fumihiko KIMURA 1195

- **Reconstruction of a Person's Advanced in Age Vocational Capability Exertion Support System**
Eiichi OHKI 1200

- **My Experience in Precision Engineering**
Kouzo IIZUKA 1208

- **Gravure & Interview**
Polytechnic University 1173
Shigenobu SUZUKI / Akira KAKIMOTO
Interview : Etsuko KOBAYASHI

- **Introduction to Precision Engineering**
Basic Aspects in Bioelectrical Measurements 1204
Yasuhiko JIMBO

- **Introduction of Laboratories**
Medical Technology Laboratory, School of Bionics, Tokyo University of Technology 1209
Vibration Engineering Laboratory, Department of Mechanical Engineering and Science, Graduate School of Engineering, Kyoto University 1211

- JSPE News 1214
- International Conference Report 1213
- Book Review 告 11-10
- From the Lecture Committee 告 11-1
- Editor's Note 告 11-13

Paper

- **Feedforward Control of Supplied Air Pressure and Air Flow Fluctuations for Pneumatic Type Anti-Vibration Apparatus** 1215
Shinji WAKUI, Kyosho URYU, Masato TAKAHASHI and Koji YAMAMOTO
- **Experimental research on steering stiffness of SBW** 1220
Ryouhei HAYAMA, Shirou NAKANO and Hiromitsu KUMAMOTO
- **Study of a New Type of Laser Microscope with Wide Field of View Using a Shrink Fitter** 1226
Isami NITTA, Akihiro KANNO, Michiya OKAMOTO and Yasushi NAGAOKA
- **Forcefree Control for Articulated Robot Arms Using Torque Observer** 1233
Satoru GOTO, Tatsumi USUI, Masatoshi NAKAMURA and Nobuhiro KYURA
- **A Null Space Force Control Based on Passivity in Redundant Manipulator** 1238
Tsuyoshi SHIBATA and Toshiyuki MURAKAMI
- **Fabrication of Three-dimensional Scaffolds for Regeneration of High-metabolic-rate Organs by Selective Laser Sintering Using Water Leachable Filler** 1246
—Fabrication of Porous Bodies with Fine Flow Channel Network from Biodegradable Plastic—
Toshiki NIINO, Hiromichi NARUKE, Shunsuke OIZUMI, Yasuyuki SAKAI and Hongyun HUANG
- **Two Dimensional Machining Test of Hard-Brittle Materials Under High Hydrostatic Pressure** 1251
Masahiko YOSHINO, Kousuke KAWADE and Eiji HIGASHI
- **Creation of 3-Dimensional Complicated Tiny Statue by Means of 5-Axis Control Ultraprecision Milling** 1256
Takashi SASAKI, Makoto SONO, Tohru ISHIDA, Tomohiko KAWAI and Yoshimi TAKEUCHI
- **Development of Rough Cutting Method with Plunge Milling Using 5-axis Control Machine Tool** 1261
Chihiro HIRANO and Koichi MORISHIGE
- **Optimum Rib Layout Design of Machine Tools Structures Using Neural Networks** 1267
Masashi YAMANAKA, Masakazu KONISHI and Katsumi INOUE
- **Simultaneous Estimation of Torque and Angle of Human Elbow Joint by Using Ultrasound Echo** 1273
Yoichiro TSUTSUI, Kazuhiko HAYASE, Takayuki TANAKA, Shun'ichi KANEKO and Maria Q. FENG