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Piezoelectric Actuators and Ultrasonic Motors (Electronic Materials: Science & Technology)

Kenji Uchino

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Remarkable developments have taken place in the field of mechatronics in recent years. As symbolized by the "Janglish (Japanese English)" word, mechatronics, the technology and the social adaptation for introducing electronics into mechanics has been readily accepted in Japan. Currently robots are producing many products under computer control in Japanese factories, and supermarkets are utilizing automation systems for sample displays and sales. Further, the fast paced change in semiconductor chip technology has given rise to the need for micro-displacement positioning techniques. Actuators utilizing piezoelectridelectrostrictive effects are expected to meet these needs in mechanical components in the next micro mechatronic age. This book, in English, builds on my earlier publications concerned with ceramic actuators. The first edition titled "Essentials for Development and Applications of Piezoelectric Actuators" was published in 1984 through the Japan Industrial Technology Center. The second edition "PiezoelectriclElectrostrictive Actuators" published in Japanese through Morikita Pub. Co. (Tokyo) became one of the best sellers in that company in 1986, and was then translated into Korean. The problem solving edition "Piezoelectric Actuators -Problem Solving" was also published through Morikita, which was sold in conjunction with a 60 minute video tape to provide easy understanding.

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