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Sommario/riassunto

This book contains applications of micromechanisms and microactuators in several very modern technical fields such as mechatronics, biomechanics, machines, micromachines, robotics and apparatuses. In connection with its topic, the work combines the theoretical results with experimental tests on micromechanisms and microactuators. The book presents the most recent research advances in Machine and Mechanisms Science. It includes the accepted reviewed papers of researchers specialized in the topics of the conference: microactuators and micro-assembly, micro sensors involving movable solids, micro-opto-mechanical devices, mechanical tools for cell and tissue studies, micromanipulation and micro-stages, micro-scale flight and swimming, micro-robotics and surgical tools, micron-scale power generation, miniature manufacturing machines, micromechatronics and micro-mechanisms, biomechanics micro and nano scales and control issues in microsystems. The presented applications of micromechanisms and microactuators in many technical fields will interest industrial companies and encourage scientifical knowledge and cooperation between academia and industry.