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Piezoelectric Ceramics: Principles and Applications

By Ltd Apc International

Apc International, Ltd., United States, 2011. Paperback. Book Condition: New. 278 x 216 mm. Language: English . Brand New Book ***** Print on Demand *****.APC International, Ltd. s textbook on the principles and applications of piezoelectric ceramics covers: general principles of piezoelectricity and behavior of piezoelectric ceramic elements fundamental mathematics of piezoelectricity traditional and experimental applications for piezoelectric materials, and related physical principles for each application: audible sound producers, flow meters, fluid level sensors, motors, pumps, delay lines, transformers, other apparatus introduction to single crystals, composites, and other latest-generation piezoelectric materials Contents Introduction piezoelectricity / piezoelectric constants behavior / stability of piezoelectric ceramic elements new materials: relaxors / single crystals / others characteristics of piezoelectric materials from APC International, Ltd. Generators generators solid state batteries Sensors axial sensors flexional sensors special designs and applications: composites / SAW sensors / others Actuators axial and transverse actuators: simple / compound (stack) / multilayer flexional actuators / flextensional devices applications for piezoelectric actuators Transducers audible sound transducers generating ultrasonic vibrations in liquids or solids transmitting ultrasonic signals in air or water flow meters / fluid level sensors / delay lines / transformers / composites Miscellaneous securing a piezoelectric ceramic element attaching electrical leads...



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