



Electroactive Polymer Actuators and Sensors

By Yongxian Wu

LAP Lambert Acad. Publ. Feb 2010, 2010. Taschenbuch. Book Condition: Neu. 221x149x15 mm. Neuware - Ionic polymer-metal composites (IPMCs) are soft bending actuators and sensors. A typical IPMC consists of a thin perfluorinated ionomer membrane, noble metal electrodes plated on both faces, and is neutralized with the necessary amount of cations. They respond to electric stimulus by generating large bending motions and produce electric signals upon sudden bending deformations. These actuation and sensing responses, which result from the coupled chemo-electro-mechanical interactions at the nano-scale level, depend on the structure of the ionomer, the morphology of the metal electrodes, the nature of the cations, and the degree of the hydration. IPMCs have been considered for potential applications in artificial muscles, robotic systems, medical devices, and other biomimetic applications. 172 pp. Englisch.



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