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# PIEZO-ELECTROCHEMICAL TRANSDUCER EFFECT INTERCALATED GRAPHITE MICRO-ELECTROMECHANICAL ACTUATORS (PAPERBACK)



Piezo-Electrochemical Transducer  
Effect Intercalated Graphite  
Micro-Electromechanical Actuators

Glen A. Kading

Biblioscholar, United States, 2012. Paperback. Condition: New. Language: English . Brand New Book. The purpose of this research is to investigate the Piezo-Electrochemical Transducer (PECT) effect in intercalated graphite as a possible mechanism of actuation for micro-electromechanical systems (MEMS). This dissertation presents the results of research into the PECT effect in H<sub>2</sub>SO<sub>4</sub>-intercalated graphitized carbon fibers, including both electrical and mechanical characteristics of this effect. PECT fibers achieve up to 1.7 strain at 1.4 V of applied potential. In contrast, the...

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- Authored by Glen A Kading
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