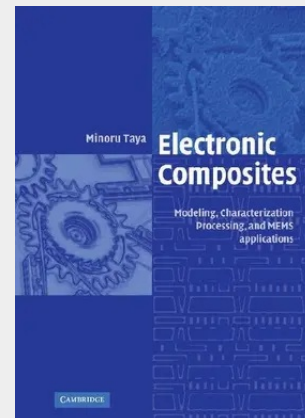


Electronic Composites

Modeling, Characterization Processing, and MEMS Applications

Electronic composites, whose properties can be controlled by thermal or electromagnetic means, play an important role in micro- and nano-electromechanical systems (MEMS/NEMS) such as sensors, actuators, filters and switches. This book describes the processing, simulation, and applications of electronic composites. The book begins with a review of the mechanical, thermal, electromagnetic and coupling behaviour of electronic composites. Their major applications are then discussed. Key simulation models are described in detail and illustrated by reference to real examples. The book closes with a discussion of electronic composite processing, including MEMS design and packaging. The book contains a comprehensive list of references and is aimed at graduate students of electrical engineering and materials science. It will also be a useful reference for researchers and engineers in the MEMS industry.

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