



Innovative Thermoelectric Materials:Polymer, Nanostructure and Composite Thermoelectrics

By Howard E Katz, Theodore O Poehler



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Power generation from environmentally friendly sources has led to surging interest in thermoelectrics. There has been a move toward alternative thermoelectric materials with enhanced performance through materials and structures that utilize common and safer elements and alternative mechanistic approaches while increasing processing latitude and decreasing cost. This wide-ranging volume examines this progress and future prospects with the new technologies, ease of processing and cost as major considerations, and will benefit active researchers, students and others interested in cutting-edge work in thermoelectric materials.

Innovative Thermoelectric Materials incorporates the contributions of a group of recognized experts in thermoelectric materials, many of whom were the first to introduce various materials systems into thermoelectric systems. The perspectives brought to this evolving subject will provide important insights on which those developing the field can build, and will inspire new research directions for the future.



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Editorial Review

From the Inside Flap

The contemporary enthusiasm for environmentally friendly energy sources such as solar, geothermal, and wind energy has caused a surge of interest into how thermoelectrics might contribute to greater efficiency in energy generation and conversion. Although historically the primary materials used in thermoelectric devices have been metals and inorganic semiconductors, there has recently been a movement to make use of the thermoelectric effects of organic conducting polymers, thin films, nanostructured materials, oxides, and pseudo-liquid materials. These materials and structures show great promise in improving the cost, simplicity, and efficiency of thermoelectric systems and, ultimately, offer the potential for enhanced properties through application of alternative physical mechanisms.

Innovative Thermoelectric Materials incorporates the contributions of a group of recognized experts at the forefront of these developments in thermoelectric materials, models of energy transport in candidate thermoelectric materials, and developers of high-efficiency thermoelectric energy conversion. Recent progress and future prospects are analyzed, with a particular focus on thermoelectric energy conversion in organic conducting polymers, polymer nanostructure composites, and hierarchically assembled structures.

Users Review

From reader reviews:

Kimberly Thibault:

This Innovative Thermoelectric Materials:Polymer, Nanostructure and Composite Thermoelectrics book is not really ordinary book, you have it then the world is in your hands. The benefit you receive by reading this book is usually information inside this e-book incredible fresh, you will get facts which is getting deeper you read a lot of information you will get. This specific Innovative Thermoelectric Materials:Polymer, Nanostructure and Composite Thermoelectrics without we know teach the one who reading through it become critical in contemplating and analyzing. Don't become worry Innovative Thermoelectric Materials:Polymer, Nanostructure and Composite Thermoelectrics can bring any time you are and not make your handbag space or bookshelves' come to be full because you can have it with your lovely laptop even telephone. This Innovative Thermoelectric Materials:Polymer, Nanostructure and Composite Thermoelectrics having great arrangement in word as well as layout, so you will not experience uninterested in reading.

Corrina Sutton:

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Oscar Jackson:

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Kimberly Foust:

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