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Thermoelectrics-Basic Principles and New Materials

Thermoelectrics: Basic Principles and New Materials Developments [G.S. Nolas, J. Sharp, J. Goldsmid] on Amazon.com. *FREE* shipping on qualifying offers. An in-depth analysis of thermoelectric theory, an overview of present day thermoelectric materials and devices

Thermoelectrics: Basic Principles and New Materials

The field of thermoelectrics has grown dramatically in recent years. In particular new and novel materials research has been undertaken and device applications have increased. In spite of this resurgence of interest there are very few books available that outline the basic concepts in this field.

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The book comprehensively covers the basic physical principles of thermoelectrics as well as recent developments and design strategies of materials and devices. The book is divided into two sections: the first section is concerned with design and begins with an introduction to the fast developing and multidisciplinary field of thermoelectrics.

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Thermoelectrics: Design and Materials | Thermodynamics

2.0 Basic Principles of Thermoelectric Modules & Materials 2.1 THERMOELECTRIC MATERIALS: The thermoelectric semiconductor material most often used in today's TE coolers is an alloy of Bismuth Telluride that has been suitably doped to provide individual blocks or elements having distinct n and p characteristics.

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Advanced Thermoelectric Materials and Generator Technology for Automotive Waste Heat at GM Gregory P. Meisner General Motors Global Research & Development. Warren, MI. 2011 Thermoelectrics Applications Workshop. January 3-6, 2011. Hotel Del Coronado. San Diego, CA. 2. Thermoelectric Research and Development

Advanced Thermoelectric Materials and Generator Technology

tal discussion of the basic principles, and an overview of some of the recent developments and materials are given in texts by Tritt² and Nolas.⁵ Seebeck and Peltier Effects A discussion of thermoelectric effects and devices should start with one of the most fundamental TE phenomena, the

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