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- Thermoelectric Properties of Quantum Wires within Chrysotile Asbestos Nanotubes; Chapter 6 - Bismuth Telluride Alloys for Waste Energy Harvesting and Cooling Applications; Chapter 7 - Optimization of Solid Solutions Based on Bismuth and Antimony Chalcogenides above Room Temperature
 Chapter 8 - Effect of Vacancy Distribution on the Thermoelectric Properties of Gallium and Indium Chalcogenides
 Chapter 9 - Thermoelectric Inverse Clathrates; Chapter 10 - Recent Advances in the Development of Efficient N-Type Skutterudites; Chapter 11 - Silicide Thermoelectrics: State of the Art and Prospects; Chapter 12 - Thermoelectric Properties of Intermetallic Hybridization Gap and Pseudo-Gap Systems: Fe₂VAl and CoSi; Chapter 14 - Boride Thermoelectrics: High-Temperature Thermoelectric Materials; Chapter 15 - Polymer Thermoelectric Materials
 Chapter 16 - Thermomechanical Properties of Thermoelectric Materials
 Chapter 17 - Miniaturized Thermoelectric Converters, Technologies, and Applications; Chapter 19 - Millikelvin Tunnelling Refrigerators; Chapter 20 - Heat Dissipaters; Chapter 21 - Thin-Film Superlattice Thermoelectric Devices for Energy Harvesting and Thermal Management; Chapter 22 - Thermoelectric Energy Recovery Systems: Thermal, Thermoelectric, and Structural Considerations; Chapter 23 - Thermoelectric Harvesting of Low-Temperature Heat; Chapter 24 - Solar Thermoelectric Power Conversion
 Chapter 25 - Automotive Applications of Thermoelectric Materials
 Chapter 26 - Medical Applications of Thermoelectrics; Back Cover

Sommario/riassunto

This book includes updated theoretical considerations which provide an insight into avenues of research most likely to result in further improvements in material performance. It details the latest techniques for the preparation of thermoelectric materials employed in energy harvesting, together with advances in the thermoelectric characterisation of nanoscale material. The book reviews the use of neutron beams to investigate phonons, whose behaviour govern the lattice thermal conductivity and includes a chapter on patents--
 With contributions from leading experts, this book begins with an overview of thermoelectric nanotechnology, setting the scene for the topics covered in the rest of the volume. It provides a comprehensive review of the progress made in the development of modules and their application in devices. The book highlights dramatic advances in miniaturization and its successful commercialization in energy harvesting. It then covers thermoelectric energy harvesting and contains reviews of the solar, automotive, and medical harvesting of waste heat--
