

Contents

List of Contributors	vii
Preface	xi
1. Innovative Thermoelectric Materials <i>Theodore O. Poehler and Howard E. Katz</i>	1
2. Solution-Processable Molecular and Polymer Semiconductors for Thermoelectrics <i>Ruth Schlitz, Anne Glaudell and Michael Chabinyo</i>	39
3. Nanostructured Thermoelectric Materials <i>Sangyeop Lee and Gang Chen</i>	77
4. New Design Rules for Polymer-Based Thermoelectric Nanocomposites <i>Jeffrey J. Urban and Nelson E. Coates</i>	107
5. Role of Dopants in Defining Carrier Densities, Energetics, and Transport in Semiconducting Polymers <i>Gun-Ho Kim and Kevin P. Pipe</i>	131
6. Thermoelectric Polymer-Inorganic Composites <i>Robert M. Ireland and Howard E. Katz</i>	147

7. Modeling Thermoelectric Materials 193
Greg Walker
8. Phase-Transition-Enhanced Thermoelectric
Performance in Copper Selenide 219
David R. Brown and G. Jeffrey Snyder
- Index 259