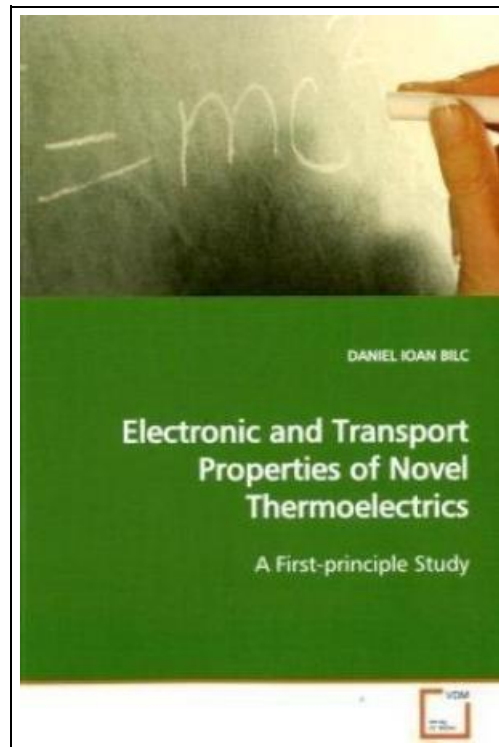


Electronic and Transport Properties of Novel Thermoelectrics



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(Prof. Triston Smitham V)

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Condition: New. Publisher/Verlag: VDM Verlag Dr. Müller | A First-principle Study | In recent years there have been a revival of interest in discovering and understanding the physical properties of novel thermoelectric (TE) materials with high figure of merit. These materials are primarily narrow band gap semiconductors. In this book, electronic structure calculations were carried out for several narrow band gap chalcogenide TE materials in order to understand their electronic and transport properties governing their TE characteristics. These calculations were performed within DFT whereas the transport calculations were carried out using Boltzmann transport equations. The effect of quantum confinement created by the surfaces of Bi₂Se₃ and Bi₂Te₃ (impact of interlayer bonding) and their superlattice electronic properties were investigated. The complex materials (K₂Bi₈Se₁₃, AgPbmSbTe_{2+m} (LAST-m)) were studied. For PbTe and LAST-m materials, which are among the best bulk TE at high temperatures, transport calculations were performed. This study should be useful to professionals in the field of thermoelectricity, or anyone interested in electronic and transport properties of narrow gap semiconductors. | Format: Paperback | Language/Sprache: english | 150 gr | 104 pp.



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