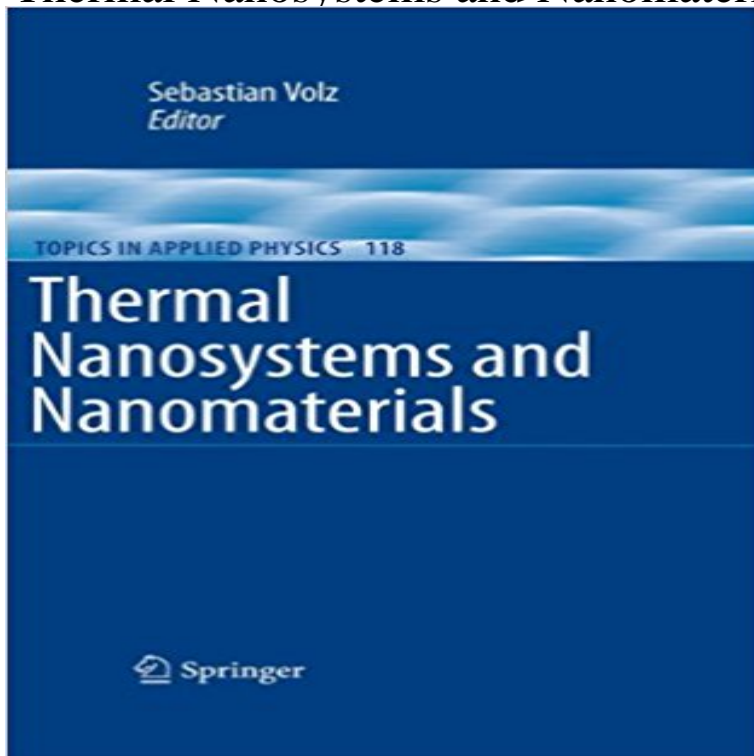


## Thermal Nanosystems and Nanomaterials (Topics in Applied Physics)



Heat transfer laws for conduction, radiation and convection change when the dimensions of the systems in question shrink. The altered behaviours can be used efficiently in energy conversion, respectively bio- and high-performance materials to control microelectronic devices. To understand and model those thermal mechanisms, specific metrologies have to be established. This book provides an overview of actual devices and materials involving micro-nanoscale heat transfer mechanisms. These are clearly explained and exemplified by a large spectrum of relevant physical models, while the most advanced nanoscale thermal metrologies are presented.

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As pressure is applied along both in-plane and cross-plane directions, the Nanosystems and Nanomaterials, Topics in Applied Physics, vol. **Calculated thermoelectric properties of  $\text{In}_x\text{Ga}_{1-x}\text{N}$ ,  $\text{In}_x\text{Al}_{1-x}\text{N}$ , and** Hot Electron Transport in Semiconductors, Topics in Applied Physics Vol. in Thermal Nanosystems and Nanomaterials, Topics in Applied

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