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Review articles or book chapters: [6] T.L. Feng and X.L. Ruan, "Higher-order phonon scattering: Advancing the quantum theory of phonon linewidth, thermal conductivity, and thermal radiative properties", book chapter in "Nanoscale energy transport", IOP Publishing (2020).PDF

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This intro lecture gives an overview of the course and the research in the field of nanoscience and technology. It starts with review of the classical laws related to energy transport processes, and introduces microscopic pictures of energy carriers.

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Nanoscale Energy Transport and Conversion: A Parallel Treatment of Electrons, Molecules, Phonons, and Photons. Oxford University Press, 2005. ISBN: 9780195159424. [Preview with Google Books]

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G. Chen, Nanoscale Energy Transport and Conversion, Oxford University Press, January 2005. ISBN 019515942X. An erratum version of the book is here. From Amazon.com: "This is a graduate level textbook in nanoscale heat transfer and energy conversion that can also be used as a reference for researchers in the developing field of nanoengineering.

NanoEngineering: Education - MIT

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conversion processes. Our research interests include fundamental physics of thermal, electrical, and photonic energy interactions at nanoscales, nanostructure-based energy applications, nanoscale thermophysical instrumentations, and tip-based ...

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