

1.	Record Nr.	UNIORUON00527323
	Titolo	Miniatjurite na manasievata hronika v"v Vatikanskata Biblioteka : Cod. Vat. Slav. II / Bogdan Dimitrov Filov
	Pubbl/distr/stampa	Sofia, : Nar. Muzej, 1927
	Descrizione fisica	84 pagine, 40 litografie : 4 tavole a colori ; 37 cm.
	Lingua di pubblicazione	Bulgaro
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
2.	Record Nr.	UNINA9910407735403321
	Autore	Zhang Zhuomin M
	Titolo	Nano/Microscale Heat Transfer / / by Zhuomin M. Zhang
	Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
	ISBN	3-030-45039-2
	Edizione	[2nd ed. 2020.]
	Descrizione fisica	1 online resource (xxvi, 761 pages) : illustrations
	Collana	Mechanical Engineering Series, , 0941-5122
	Disciplina	621.4022
	Soggetti	Thermodynamics Heat engineering Heat - Transmission Mass transfer Nanotechnology Mechanics Mechanics, Applied Fluid mechanics Engineering Thermodynamics, Heat and Mass Transfer Nanotechnology and Microengineering Solid Mechanics Engineering Fluid Dynamics
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia

Nota di contenuto

Introduction -- Overview of Macroscopic Thermal Sciences -- Elements of Statistical Thermodynamics and Quantum Theory -- Kinetic Theory and Micro/Nanofluidics -- Thermal Properties of Solids and the Size Effect -- Electron and Phonon Transport -- Nonequilibrium Energy Transfer in Nanostructures -- Fundamentals of Thermal Radiation -- Radiative Properties of Nanomaterials -- Near-Field Energy Transfer -- Appendix A -- Appendix B.

Sommario/riassunto

This substantially updated and augmented second edition adds over 200 pages of text covering and an array of newer developments in nanoscale thermal transport. In Nano/Microscale Heat Transfer, 2nd edition, Dr. Zhang expands his classroom-proven text to incorporate thermal conductivity spectroscopy, time-domain and frequency-domain thermorefectance techniques, quantum size effect on specific heat, coherent phonon, minimum thermal conductivity, interface thermal conductance, thermal interface materials, 2D sheet materials and their unique thermal properties, soft materials, first-principles simulation, hyperbolic metamaterials, magnetic polaritons, and new near-field radiation experiments and numerical simulations. Informed by over 12 years use, the author's research experience, and feedback from teaching faculty, the book has been reorganized in many sections and enriched with more examples and homework problems. Solutions for selected problems are also available to qualified faculty via a password-protected website. • Substantially updates and augments the widely adopted original edition, adding over 200 pages and many new illustrations; • Incorporates student and faculty feedback from a decade of classroom use; • Elucidates concepts explained with many examples and illustrations; • Supports student application of theory with 300 homework problems; • Maximizes reader understanding of micro/nanoscale thermophysical properties and processes and how to apply them to thermal science and engineering; • Features MATLAB codes for working with size and temperature effects on thermal conductivity, specific heat of nanostructures, thin-film optics, RCWA, and near-field radiation.
