Experimental micro/nanoscale thermal transport [

Wang, Xinwei (1948-)

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Monografía

"This book covers the new technologies on micro/nanoscale thermal characterization developed in the Micro /Nanoscale Thermal Science Laboratory led by Dr. Xinwei Wang. Five new non-contact and non-destructive technologies are introduced: optical heating and electrical sensing technique, transient electro-thermal technique, transient photo-electro-thermal technique, pulsed laser-assisted thermal relaxation technique, and steady-state electro-Raman-thermal technique. These techniques feature significantly improved ease of implementation, super signal-to-noise ratio, and have the capacity of measuring the thermal conductivity /diffusivity of various one-dimensional structures from dielectric, semiconductive, to metallic materials"--

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