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Titolo	Transport in multilayered nanostructures [[electronic resource]] : the dynamical mean-field theory approach / / James K. Freericks
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Descrizione fisica	1 online resource (xiv, 327 p.) : ill
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction to Multilayered Nanostructures; Dynamical Mean-Field Theory in the Bulk; Dynamical Mean-Field Theory of a Multilayered Nanostructure; Thouless Energy and Normal-State Transport; Josephson Junctions and Superconducting Transport; Thermal Transport; Future Directions; Appendix with Over 35 Problems.
Sommario/riassunto	Dealing with Dynamical Mean-Field Theory (DMFT), this book develops the formalism of many-body Green's functions using the equation of motion approach, which requires an undergraduate solid state physics course and a graduate quantum mechanics course as prerequisites. It also emphasizes how to carry out numerical calculations.