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Titolo	Out-of-Equilibrium Physics of Correlated Electron Systems // edited by Roberta Citro, Ferdinando Mancini
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Collana	Springer Series in Solid-State Sciences, , 0171-1873 ; ; 191
Disciplina	530.41
Soggetti	Superconductivity Superconductors Quantum physics Phase transformations (Statistical physics) Condensed materials Optical materials Electronic materials Strongly Correlated Systems, Superconductivity Quantum Physics Quantum Gases and Condensates Optical and Electronic Materials
Lingua di pubblicazione	Inglese
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Nota di contenuto	Master equation versus Keldysh Green's functions for correlated quantum systems out of equilibrium -- Towards an understanding of superconductors and correlated materials out-of-equilibrium: mean-field approaches -- Electronic structure of correlated materials out of equilibrium: non-equilibrium dynamical mean-field theory -- Ultrafast optical control of complex quantum materials.
Sommario/riassunto	This book is a wide-ranging survey of the physics of out-of-equilibrium systems of correlated electrons, ranging from the theoretical, to the numerical, computational and experimental aspects. It starts from basic approaches to non-equilibrium physics, such as the mean-field approach, then proceeds to more advanced methods, such

as dynamical mean-field theory and master equation approaches. Lastly, it offers a comprehensive overview of the latest advances in experimental investigations of complex quantum materials by means of ultrafast spectroscopy. .
