

Nonequilibrium Many Body Theory Of Quantum Systems A Modern Introduction

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The Green's function method is one of the most powerful and versatile formalisms in physics, and its nonequilibrium version has proved invaluable in many research fields. This book provides a unique, self-contained introduction to nonequilibrium many-body theory.

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A unique, self-contained introduction to nonequilibrium many-body theory, with a focus on the time-dependent aspect. Topics range from basic quantum mechanics to nonequilibrium Green's function formalisms, and with full derivations of every result and an abundance of illustrative examples, this accessible book is ideal for graduate students and researchers alike.

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Theory The central goal of nonequilibrium many-body theory is to calculate real-time correlation functions. For example, we might want to calculate the 1-particle time-ordered Green's function, $iG(x,t;x_0,t_0) = \text{hT}[\psi(x,t)\psi^\dagger(x_0,t_0)]_i = \text{Tr}_p T[\psi(x,t)\psi^\dagger(x_0,t_0)]$ (1.1) in the Heisenberg picture, where ρ is an arbitrary nonequilibrium density

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Nonequilibrium many-body theory of quantum systems : a ...

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[cond-mat/0412296] Many-body theory of non-equilibrium systems

A large number can be anywhere from three to infinity (in the case of a practically infinite, homogeneous or periodic system, such as a crystal), although three- and four-body systems can be treated by specific means (respectively the Faddeev and Faddeev-Yakubovsky equations) and are thus sometimes separately classified as few-body systems.

Many-body problem - Wikipedia

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The nonequilibrium Green function theory is described and used for the derivation of the quantum kinetic equations. Numerical methods for the solution of the retarded quantum kinetic equations are discussed and results are presented for high-field transport and for mesoscopic transport phenomena.