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Abstract We revise fundamental concepts in the dynamics of open quantum systems in the light of modern developments in the field. Our aim is to present a unified approach to the quantum evolution...

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1 Introduction To write an introduction to the dynamics of open quantum systems may seem at first a complicated, albeit perhaps unnecessary, task. On the one hand, the 2 field is quite broad and encompasses many different topics which are covered by several books and reviews [1-37].

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An Introduction Angel Rivas

arXiv:1104 ...

Macroscopic systems may be considered as quantum subsystems, that is, nonisolated, open quantum systems which are under inevitable interaction with the other physical systems which constitute the environment [4]. In this regard, microscopic systems are physical systems which experience a “short” time interaction, for example, the action of an incident or external field, or the potential energy of the system.

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Quantum Systems INTRODUCTION : #1
The Theory Of ^ Read The Theory Of Open Quantum Systems ^ Uploaded By Wilbur Smith, special attention is paid to the theory of environment induced decoherence its role in the

The Theory Of Open Quantum Systems [PDF, EPUB EBOOK]

In physics, an open quantum system is a quantum-mechanical system which interacts with an external quantum system, the environment or bath. In general, these interactions significantly change the dynamics of the system and result in quantum dissipation, where the information contained in the system is lost to its environment. Because no quantum system is completely isolated from its surroundings, it is important to develop a theoretical framework for treating these interactions in order to obtain

Open quantum system - Wikipedia

The book includes the modern

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formulation of open quantum systems in terms of stochastic processes in Hilbert space. Stochastic wave function methods and Monte Carlo algorithms are designed and applied to important examples from quantum optics and atomic physics.

Theory of Open Quantum Systems - Oxford Scholarship

In open quantum systems the dynamics of the environment can influence the behavior of the quantum subsystem in significant ways. In particular, it can lead to decoherence and dissipation which can play central roles in the rates and mechanisms of physical processes.

Quantum dynamics in open quantum-classical systems

A unified approach to the quantum evolution of open systems is presented by merging concepts and methods traditionally employed by different communities, such as quantum optics, condensed matter, chemical physics and

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mathematical physics.

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A unified approach to the quantum evolution of open systems is presented by merging concepts and methods traditionally employed by different communities, such as quantum optics, condensed matter, chemical physics and mathematical physics.

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At a quantum critical point the ground state of a many-particle quantum system undergoes a phase transition when some control parameters such as pressure, magnetic field, or chemical composition is varied. The universal behaviour characteristic for such quantum phase transitions often affects a wide temperature range and gives rise to novel material properties.

Quantum phase transitions:

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Introduction and some open ...

Designing robust control schemes in n -level open quantum system is significant for quantum computation. Here, we investigate two quantum control strategies based on supervised machine learning to suppress the quantum noise in an open quantum system. One is controlling state distance and the other is governing the average of a Hermitian operator.

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The book includes the modern formulation of open quantum systems in terms of stochastic processes in Hilbert space. Stochastic wave function methods and Monte Carlo algorithms are designed and ...

(PDF) The Theory of Open Quantum Systems

More generally we use indirect measurements as a tool to scrutinize the evolution of open quantum systems and

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analyze some properties of quantum trajectories. We also introduce the basics of quantum noises. Our focus is on properties that are related, or analogous to classical probability theory.

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