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Stochastic description for open quantum systems

November 9th, 2018 - Concepts such as the Feynman-Vernon influence functional method the reduced density matrix the reduced Wigner function the master equation the Fokker-Planck equation and the Langevin equation are some of the key words associated to the study of open quantum systems

Quantum dynamics in open quantum classical systems

November 15th, 2018 - mechanics coherence and decoherence in quantum classical systems nonadiabatic dynamics surface hopping and mean field theories and their relation to quantum classical Liouville dynamics as well as methods for simulating the dynamics

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August 14th, 2002 - This book treats the central physical concepts and mathematical techniques used to investigate the dynamics of open quantum systems To provide a self contained presentation the text begins with

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October 25th, 2018 - Classical statistical mechanics is distinguished from quantum statistical mechanics by the use of the continuous variables position and momentum to calculate properties 1 whereas quantum statistical mechanics considers averages of discrete quantum states

Computation of transient dynamics of energy power for a

January 7th, 2018 - achieved regarding the study of work in a closed quantum system 18 and important progress in the measurement of the dissipated energy through an open quantum system to a reservoir have been reported 3 24 25

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November 16th, 2018 - quantum mechanics it provides a unified description of quantum dynamics and equilibrium quantum statistical mechanics it avoids the use of wavefunctions and thus is often the only viable approach to many body problems and it leads to powerful influence functional meth

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Statistical mechanics Wikipedia

November 7th, 2018 - Statistical mechanics is one of the pillars of modern physics It is necessary for the fundamental study of any physical system that has a large number of degrees of freedom The approach is based on statistical methods probability theory and the microscopic physical laws

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