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Semiclassical Dynamics and Relaxation: D.S.F. Crothers ...

Dispersion (Dynamics and Relaxation) includes scattering/collisions in the gaseous phase. It also includes thermal agitation, tunneling and relaxation in the liquid and solid phases. Classical mechanics, classical statistical mechanics, classical relativity and quantum mechanics are all implicated. 'Semiclassical' essentially means that there is a large or asymptotic real parameter.

Semiclassical Dynamics and Relaxation | D.S.F. Crothers ...

The author is an expert in quantum dynamics and the processes of atomic collisions over 42 years and he has developed the mathematics of the semiclassical theory over 18 years and has applied this to condensed-matter physics.

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Semiclassical Dynamics and Relaxation Paperback Nov 19 2010 by D.S.F. Crothers (Author) Be the first to review this item

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Semiclassical dynamics and relaxation. [Derrick S F Crothers] -- This text concerns semiclassical within various meanings. These include the familiar JWKB approximation and its phase-integral generalizations in Chapter 2 to two and four transition points with or

D.S.F. Crothers: Semiclassical Dynamics and Relaxation ...

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Symplectic semiclassical wave packet dynamics

Gaussian wave packet dynamics is an essential example in time-dependent semiclassical mechanics that nicely illustrates the classical-quantum correspondence, as well as a widely-used tool in simulations of semiclassical mechanics, particularly in chemical physics (see, e.g., Semiclassical Dynamics and Relaxation (Springer Series on ...

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mechanics, classical relativity and quantum mechanics are all implicated. 'Semiclassical' essentially means that there is a large or asymptotic real parameter

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Semiclassical Model of Electron Dynamics 8.1

Description ...

Semiclassical Model of Electron Dynamics by OKC Tsui based on A&M I 8.1 Description of the Semiclassical Model Electrons in crystalline solids assume Bloch wave functions.

Semiclassical nonadiabatic dynamics of NaFH with quantum ...

Therefore, nonadiabatic dynamics presents a special challenge to semiclassical methods. In Ref. [2] presenting application of the Ehrenfest, Meyer-Miller and surface hopping methods to the collinear model of the NaFH photodissociation it has been concluded that semiclassical theories perform poorly in deep quantum regime of large separations (>1 eV) between the adiabatic surfaces.

Long-time behaviour of quantized distributions in forward ...

forward backward semiclassical dynamics (FBSD) calculations. By virtue of Liouville's theorem and energy conservation, the volume of the negative regions is rigorously conserved and the energy

H Atom Recombination on W(001): a Semiclassical Molecular ...

semiclassical scattering code; III. The collision dynamics is performed and a sufficiently large batch of trajectories is The collision dynamics is performed and a sufficiently large batch of

Vibrational Frequency Shifts and Relaxation Rates for a ...

Molecular dynamics trajectories of solvated cytochrome c were run at 300K, and vibrational population relaxation times were estimated using the classical Landau-Teller-Zwanzig model and a number of semiclassical theories of resonant and two-phonon vibrational relaxation processes.