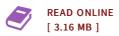




## Time Dependent Hartree-Fock and Beyond

By Goeke, K. / Reinhard, P.-G.

Book Condition: New. Publisher/Verlag: Springer, Berlin  $\mid$  Proceedings of the International Symposium Held in Bad Honnef, Germany, June 7-11,1982 | Time dependent Hartfree-Fock the timedependent Hartree-Fock description of heavy-ion collisions: A progress report.- TDHF calculation of nuclear molecules from C12 + C12 TO U238 + U238.- Science and art in heavy ion collisions.- The TDHF evolution of collective motion in heavy nuclei.- Study of the 160 + 160 reaction in the timedependent Hartree - Fock - Bogolyubov approximation.- Matter, momentum and energy flow in heavy-ion collisions.- Time-dependent ground-state correlations in heavy ion scattering.- A  $variational\ principle\ for\ the\ average\ value\ and\ the\ dispersion\ of\ an\ operator\ ;\ application\ to\ mean$ field theory.- On two-body collisions in an equilibrating Fermi gas.- From TDHF to nuclear hydrodynamics.- The incorporation of particle collisions in the time-dependent hartree-fock approximation.- Mean-field theory and random two-body collisions.- How collision terms relate to the dynamics of quantum correlations.- Beyond the time-dependent Hartree-Fock: The collision terms in a mean-field theory.- Quantum statistical approach to extended mean-field theory.- A Boltzmann equation approach to the damping of giant resonances in nuclei.- Tunneling of a many-Fermion system in one dimension.- Mean-field Monte Carlo method for many-body ground states.-1/Degeneracy expansion of...



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