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Fundamentals Of Time Dependent Density

Fundamentals of Time-Dependent Density Functional Theory (Lecture Notes in Physics, Vol. 837) 1st Edition. by Miguel A.L. Marques (Editor), Neepa T. Maitra (Editor), Fernando M.S. Nogueira (Editor), E.K.U. Gross (Editor), Angel Rubio (Editor) & 2 more. 4.5 out of 5 stars 2 ratings. ISBN-13: 978-3642235177.

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density rigidly sloshes back and forth following classical center of mass oscillations. $n(r,t) = n$. $G_S(r - r, CM(t))$ $V_{xc}(r,t) = V_{xc}$. $G_S(r - r, CM(t))$ Instead, GK finds an n -dependent shift in the frequency of the CM motion, and a damping of the oscillations.

Fundamentals of Time-Dependent Density Functional Theory II

Strubbe, L. Lehtovaara, A. Rubio, M. A. Marques, and S. G. Louie, in Fundamentals of Time-Dependent Density Functional Theory, edited by M. A. Marques, N. T. Maitra, F. M. Nogueira, E. Gross, and A. Rubio (Springer Berlin Heidelberg, 2012), pp. 139-166. Google ScholarCrossref. 102.

Perspective: Fundamental aspects of time-dependent density ...

The Runge-Gross theorem (Runge and Gross, Phys Rev Lett. 52:997-1000, 1984) states that for a given initial state the time-dependent density is a unique functional of the external potential. Let us...

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Time-dependent density-functional theory (TDDFT) is a quantum mechanical theory used in physics and chemistry to investigate the properties and dynamics of many-body systems in the presence of time-dependent potentials, such as electric or magnetic fields.

Time-dependent density functional theory - Wikipedia

(19) Double excitations within time-dependent density functional theory linear response N.T. Maitra, F. Zhang, R.J. Cave, and K. Burke, J. Chem. Phys. 120, 5932 (2004). (18) A dressed time-dependent density functional treatment of the σ^2 A_g States of butadiene and hexatriene

Neepa Maitra's Publications — Hunter College

Fundamentals of Time-Dependent Density Functional Theory. Summary: This book offers systematic coverage of recent developments in time-dependent density functional theory, including basic concepts, and contemporary applications from real-time coupled-electron-ion dynamics, to excited-state dynamics and molecular transport.

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