

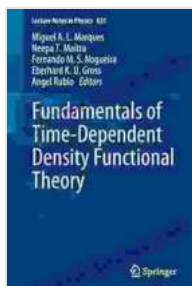
Fundamentals of Time-Dependent Density Functional Theory: Lecture Notes in Physics

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In the realm of quantum mechanics, understanding the dynamic behavior of electrons holds the key to unlocking the secrets of matter. *Fundamentals of Time-Dependent Density Functional Theory (TDDFT)*, an indispensable volume in the Lecture Notes in Physics series, provides an authoritative guide to this transformative approach, empowering researchers and students alike to delve into the fascinating world of time-dependent quantum systems.

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TDDFT has emerged as a powerful computational tool for studying the time evolution of electronic systems, offering unprecedented insights into a wide range of phenomena, from molecular vibrations and ultrafast processes to the optoelectronic properties of materials. This comprehensive lecture notes volume offers a thorough exploration of the concepts and applications of TDDFT, making it an invaluable resource for anyone seeking a deep understanding of this rapidly advancing field.



Fundamentals of Time-Dependent Density Functional Theory (Lecture Notes in Physics Book 837)

by David F. Parkhurst

★★★★★ 5 out of 5

Language : English

File size : 19382 KB

Text-to-Speech : Enabled

Enhanced typesetting : Enabled
Print length : 592 pages
Screen Reader : Supported
X-Ray for textbooks : Enabled



Written by leading experts in the field, *Fundamentals of Time-Dependent Density Functional Theory* provides:

- A rigorous to the foundational principles of TDDFT
- In-depth coverage of key concepts, including time-dependent functionals, the adiabatic approximation, and response theory
- A practical guide to implementing TDDFT simulations using popular software packages
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Table of Contents

- 1.
2. Time-Dependent Density Functional Theory
3. Adiabatic Approximation
4. Response Theory
5. Time-Dependent Functionals
6. Implementation of TDDFT
7. Applications of TDDFT

About the Author

Fundamentals of Time-Dependent Density Functional Theory is authored by a team of leading experts in the field, including:

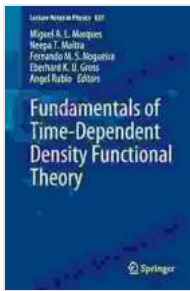
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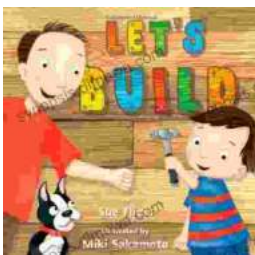
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