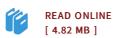




# Materials Modelling Using Density Functional Theory: Properties and Predictions

By Feliciano Giustino

Oxford University Press. Hardback. Book Condition: new. BRAND NEW, Materials Modelling Using Density Functional Theory: Properties and Predictions, Feliciano Giustino, This book is an introduction to the quantum theory of materials and first-principles computational materials modelling. It explains how to use density functional theory as a practical tool for calculating the properties of materials without using any empirical parameters. The structural, mechanical, optical, electrical, and magnetic properties of materials are described within a single unified conceptual framework, rooted in the Schrodinger equation of quantum mechanics, and powered by density functional theory. This book is intended for senior undergraduate and first-year graduate students in materials science, physics, chemistry, and engineering who are approaching for the first time the study of materials at the atomic scale. The inspiring principle of the book is borrowed from one of the slogans of the Perl programming language, 'Easy things should be easy and hard things should be possible'. Following this philosophy, emphasis is placed on the unifying concepts, and on the frequent use of simple heuristic arguments to build on one's own intuition. The presentation style is somewhat cross disciplinary; an attempt is made to seamlessly combine materials science, quantum mechanics, electrodynamics, and numerical analysis,...



## Reviews

Absolutely essential go through pdf. It is writter in simple terms and never difficult to understand. I am just very happy to let you know that this is actually the greatest pdf we have go through in my individual life and might be he greatest pdf for actually.

-- Pete Bosco

Thorough guideline! Its this type of good read. It is really simplistic but shocks from the 50 percent from the publication. It is extremely difficult to leave it before concluding, once you begin to read the book.

-- Sallie Wiegand

# You May Also Like



#### Six Steps to Inclusive Preschool Curriculum: A UDL-Based Framework for Children's School Success

Brookes Publishing Co. Paperback. Book Condition: new. BRAND NEW, Six Steps to Inclusive Preschool Curriculum: A UDL-Based Framework for Children's School Success, Eva M. Horn, Susan B. Palmer, Gretchen D. Butera, Joan A. Lieber, How can inclusive early educators plan and deliver...



# A Dog of Flanders: Unabridged; In Easy-to-Read Type (Dover Children's Thrift Classics)

Dover Publications, 2011. Paperback. Book Condition: New. No Jacket. New paperback book copy of A Dog of Flanders by Ouida (Marie Louise de la Ramee). Unabridged in easy to read type. Dover Children's Thrift Classic. Reprint of original edition. Green edition. Mineola...



## You Shouldn't Have to Say Goodbye: It's Hard Losing the Person You Love the Most

Sourcebooks, Inc. Paperback / softback. Book Condition: new. BRAND NEW, You Shouldn't Have to Say Goodbye: It's Hard Losing the Person You Love the Most, Patricia Hermes, Thirteen-year-old Sarah Morrow doesn't think much of the fact that her mother winced a little...



## The Old Peabody Pew (Dodo Press)

Dodo Press, United Kingdom, 2007. Paperback. Book Condition: New. 224 x 150 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*\*. Kate Douglas Wiggin, nee Smith (1856-1923) was an American children s author and educator. She was born in Philadelphia,...



## The Village Watch-Tower (Dodo Press)

Dodo Press, United Kingdom, 2007. Paperback. Book Condition: New. 226 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*\*. Kate Douglas Wiggin, nee Smith (1856-1923) was an American children s author and educator. She was born in Philadelphia,...



# Rose O the River (Illustrated Edition) (Dodo Press)

Dodo Press, United Kingdom, 2007. Paperback. Book Condition: New. George Wright (illustrator). Illustrated. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\*\* Print on Demand \*\*\*\*\*\*.Kate Douglas Wiggin, nee Smith (1856-1923) was an American children's author and educator. She...