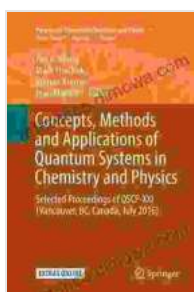


Concepts, Methods, and Applications of Quantum Systems in Chemistry and Physics

Quantum systems are at the heart of many of the most important and exciting developments in science and technology today. From the development of new materials to the design of new drugs, quantum systems are playing a vital role in shaping our future.



Concepts, Methods and Applications of Quantum Systems in Chemistry and Physics: Selected proceedings of QSCP-XXI (Vancouver, BC, Canada, July 2024) (Progress ... Theoretical Chemistry and Physics Book 31) by A.W.F. Edwards

★★★★☆ 4.4 out of 5

Language : English
File size : 39901 KB
Text-to-Speech : Enabled
Enhanced typesetting : Enabled
Print length : 605 pages
Screen Reader : Supported



This book provides a comprehensive to quantum systems in chemistry and physics. It covers the essential concepts, methods, and applications of this field, making it an ideal resource for students, researchers, and professionals alike.

Concepts

The book begins with a discussion of the basic concepts of quantum mechanics. These concepts include the wave-particle duality of matter, the uncertainty principle, and the Schrödinger equation. The book also provides a detailed discussion of the hydrogen atom, which is the simplest quantum system.

Methods

The book then goes on to discuss the various methods that are used to study quantum systems. These methods include spectroscopy, scattering theory, and computational chemistry. The book also provides a detailed discussion of the Born-Oppenheimer approximation, which is a widely used approximation in quantum chemistry.

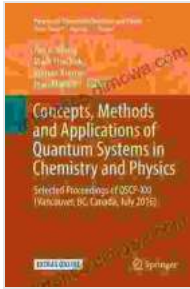
Applications

The final part of the book discusses the applications of quantum systems in chemistry and physics. These applications include the development of new materials, the design of new drugs, and the development of new energy sources. The book also provides a detailed discussion of the future of quantum systems, and the potential for this field to revolutionize science and technology.

This book is a comprehensive and up-to-date to quantum systems in chemistry and physics. It is an essential resource for students, researchers, and professionals alike.

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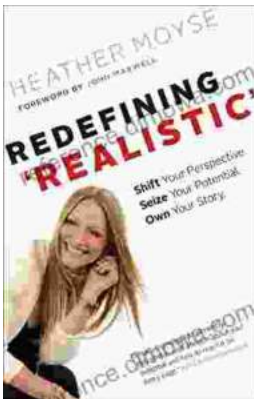
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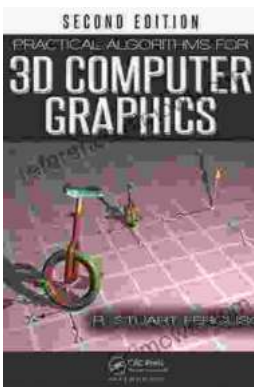
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