



Electronic Structure: Basic Theory and Practical Methods (v. 1)

By Richard M. Martin

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The study of the electronic structure of materials is at a momentous stage, with the emergence of new computational methods and theoretical approaches. This volume provides an introduction to the field and describes its conceptual framework, the capabilities of present methods, limitations, and challenges for the future. Many properties of materials can now be determined directly from the fundamental equations of quantum mechanics, bringing new insights into critical problems in physics, chemistry, and materials science.



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Editorial Review

Review

'The book places electronic structure in the context of elementary issues in physics, while at the same time emphasising its role in providing useful information on the properties of materials ... unified exposition of the basic theory and methods of electronic structure, together with instructive examples of practical computational methods and actual applications ... aim is to serve graduate students and scientists involved in research while acting as supplementary material for courses on condensed matter physics and material science ... Examples of problems are included in each chapter to bring out salient points and challenge the reader.' Materials World

About the Author

Richard Martin is Professor of Physics at the University of Illinois, Urbana-Champaign. He is a recipient of the Alexander von Humboldt Senior Scientist Award, and is a fellow of the American Physical Society (APS) and the American Association for the Advancement of Science. He has served on several editorial boards of the APS, including Physical Review and Physical Review Letters, and Reviews of Modern Physics where he was associate editor for condensed matter theory.

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