Finite Element and Boundary Element Applications in Quantum Mechanics (Oxford Texts in Applied and Engineering Mathematics)

By Ramdas Ram-Mohan

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Starting from a clear, concise introduction, the powerful finite element and boundary element methods of engineering are developed for application to quantum mechanics. The reader is led through illustrative examples displaying the strengths of these methods using application to fundamental quantum mechanical problems and to the design/simulation of quantum nanoscale devices.

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Review

"This well-organized book is an elementary introduction to quantum mechanics, the finite element method and the boundary element methodDirected to an audience of senior undergraduate and graduate students, it features bibliographies for each chapter, and author subject indices."--*Optics & Photonics News*

About the Author
Ramdas Ram-Mohan is a Professor of Physics and Electrical and Computer Engineering, Worcester Polytechnic Institute, USA.

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