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A Modern Approach to Quantum Mechanics - Kevin S. Huang

DOI: 10.1119/1.17394 Corpus ID: 121533458. A Modern Approach to Quantum Mechanics. @inproceedings{Townsend1992AMA, title={A Modern Approach to Quantum Mechanics}, author={J. Townsend}, year={1992} }

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Quantum Mechanics: A Paradigms Approach (1st ed.). Pearson Addison-Wesley. ISBN 978-0-321-76579-6. Townsend, John (2012). A Modern Approach to Quantum Mechanics (2nd ed.). University Science Books. ISBN 978-1-891389-78-8. Zettili, Nouredine (2009). Quantum Mechanics: Concepts and Applications. Chichester, UK: Wiley. ISBN 978-0470026793.

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Quantum mechanics-based model Hamiltonian and computational approaches will be used to understand novel physics in nanomaterials, e.g. electronic, optical and magnetic properties. Some specific projects are: ▮ Discovery of new 2D materials with unique electronic properties. ▮ Predicting new 2D materials using global minimization approach.