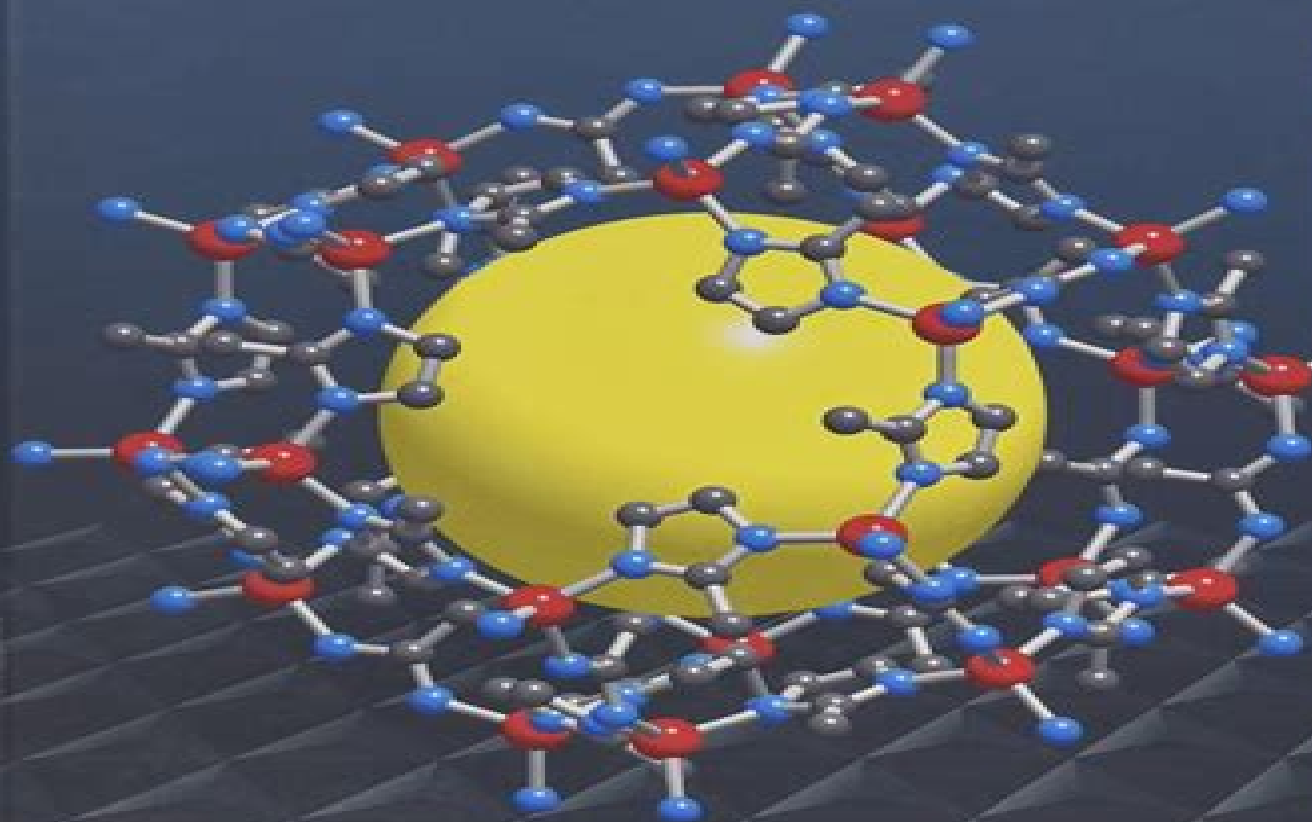


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Fundamentals of Quantum Mechanics James E. House, 2017-04-19 *Fundamentals of Quantum Mechanics* Third Edition is a clear and detailed introduction to quantum mechanics and its applications in chemistry and physics All required math is clearly explained including intermediate steps in derivations and concise review of the math is included in the text at appropriate points Most of the elementary quantum mechanical models including particles in boxes rigid rotor harmonic oscillator barrier penetration hydrogen atom are clearly and completely presented Applications of these models to selected real world topics are also included This new edition includes many new topics such as band theory and heat capacity of solids spectroscopy of molecules and complexes including applications to ligand field theory and small molecules of astrophysical interest Accessible style and colorful illustrations make the content appropriate for professional researchers and students alike Presents results of quantum mechanical calculations that can be performed with readily available software Provides exceptionally clear discussions of spin orbit coupling and group theory and comprehensive coverage of barrier penetration quantum mechanical tunneling that touches upon hot topics such as superconductivity and scanning tunneling microscopy Problems given at the end of each chapter help students to master

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Basic Practical Molecular Biology Samuel Ken-En Gan, 2020-07-04 An introduction to basic molecular biology practices in the lab covering lab safety basic lab equipment usage stoichiometry making of buffers nucleic acids and how to extract analyze and use them in molecular biology research Green Urea Noorhana Yahya, 2018-01-16 This book presents a game changing technology of lower energy intensive urea production of urea which is used as fertilizer The technology from a resource to a knowledge intensive based industry investigates a new synthesis approach employing electromagnetic induction and nano catalyst at lower energy consumption This clean and green method for a sustainable future might change the landscape of future chemical processes It is made possible due to the enhancement in nanotechnology where quantum mechanical understanding is called into play New reactor designs are elaborated on and discussed explicitly Hematite and

nickel oxide nanocatalysts are proposed for the green urea synthesis process in the presence of static and oscillating magnetic fields Strategies to increase single to triplet conversion rate are given for better understanding of the improved urea rate The focus is deliberately on scrutinizing the greenhouse gas effect on the urea yield in this case CO₂ flow rate Coating techniques for slow release strategies are provided to reduce the volatilization of ammonia and leaching effect hence offering a complete solution of Green Technology Agriculture 4.0 that creates the new patterns and precision monitoring of crop rotation and livestock utilization will be able to pave the way for better crop yield Development of advanced technology in agriculture is important for the implementation of Agriculture 4.0 and currently an inevitable trend of the socioeconomic development in the context of broader international integration for the sustainable future The author would like to acknowledge Ministry of Higher Education MOHE for the grant worth RM 12 million to accomplish Green and Economical Urea project and to have full understanding on Green Technology in Urea This book is a collaborative effort by her colleagues Ku Zilati Khanif Shahrina Zainovia Azizah Zakaria and who have carried out the research over the past five years which started in 2011 Their unconditional commitment had brought us together and we completed the project with success I wish to also thank Dr Menaka Ganeson and all my PhD students Dr Saima Dr Bilal Mr Zia and Mr Irfan for their commitment to assist me to complete the book Last but not least thank you very much to Professor Mike Payne Cambridge University and Professor Koziol Cranfield University for the comments

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