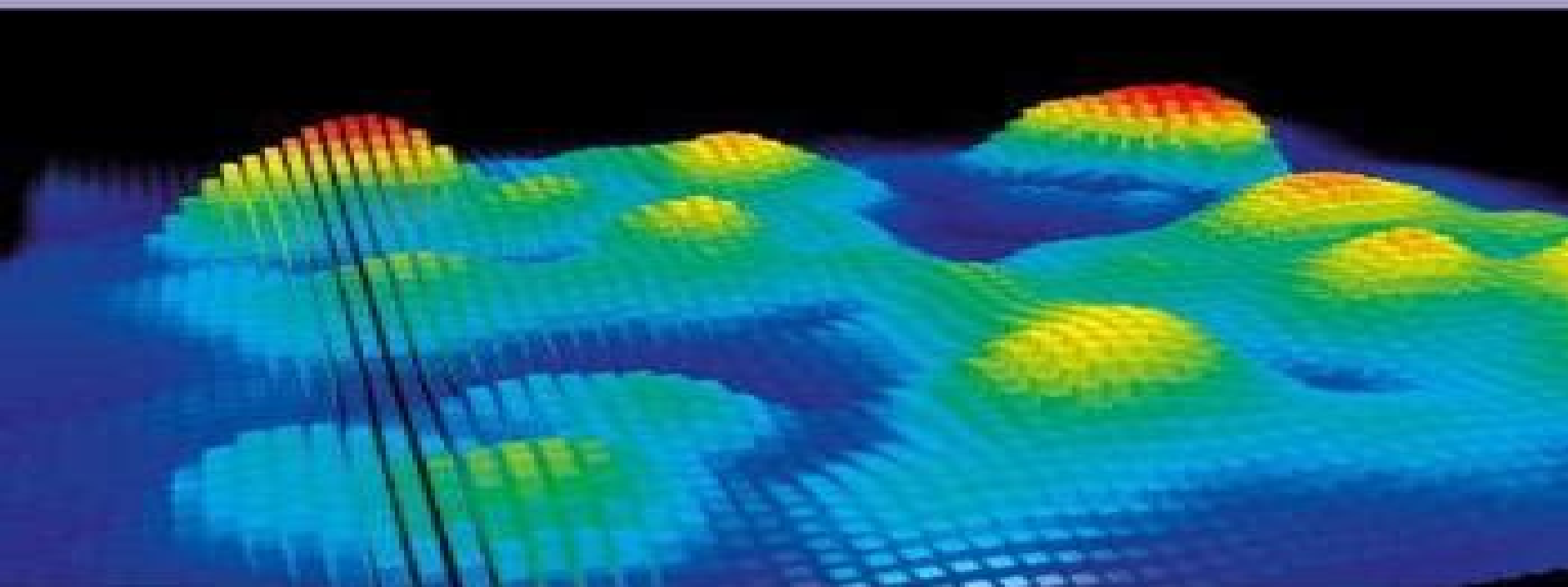


# Quantum Chemistry

A concise introduction for students  
of physics, chemistry, biochemistry  
and materials science

Ajit J Thakkar

THIRD  
EDITION



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**Lingjun Ying**



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differs from most if not all other books in that it does not seek to rationalise the phenomena of bonding by a series of mnemonic rules. A principal feature is a unified and consistent treatment across all types of bonding in organic, inorganic and physical chemistry. Each chapter has an Assignment Section containing problems which might be usefully attempted to improve the understanding of the new material in that chapter. The new edition has had several appendices added which give support to concepts which if included in the main text would have hindered the main thrust of the presentation. These new appendices are an attempt to clarify oversights and errors which have been tacitly ignored and which have now become part of the conventional wisdom. *Molecular Quantum Mechanics* Peter William Atkins, 1970 **Contemporary Quantum**

**Chemistry** J. Goodisman, 2012-12-06 Some knowledge of the principles of quantum mechanics and how they are applied to theoretical chemistry is it is generally agreed should be part of the education of all chemists. This instruction in quantum chemistry is either added to the more traditional topics of physical chemistry or given separately at Syracuse University. It forms the third semester of the physical chemistry sequence. While a wide variety of textbooks and monographs on the subject of quantum chemistry exists, the author of the present text found that none of them was satisfactory for his purposes. None fit his ideas of what subjects should be discussed and in what way. This book is presented with the hope that others with similar experiences will agree with him and endorse his conclusions. The undergraduate student to whom our attentions are directed is a chemistry major but probably will not go on to graduate school in physical chemistry. He may take several more chemistry courses as an undergraduate and then seek a position in industry or perhaps he will do graduate work in organic or inorganic chemistry. Of course one never stops hoping that as a result of this first course he will decide to learn more quantum chemistry. *Quantum Chemistry*, 2014 *An Introduction to Quantum Physics* Stefanos

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