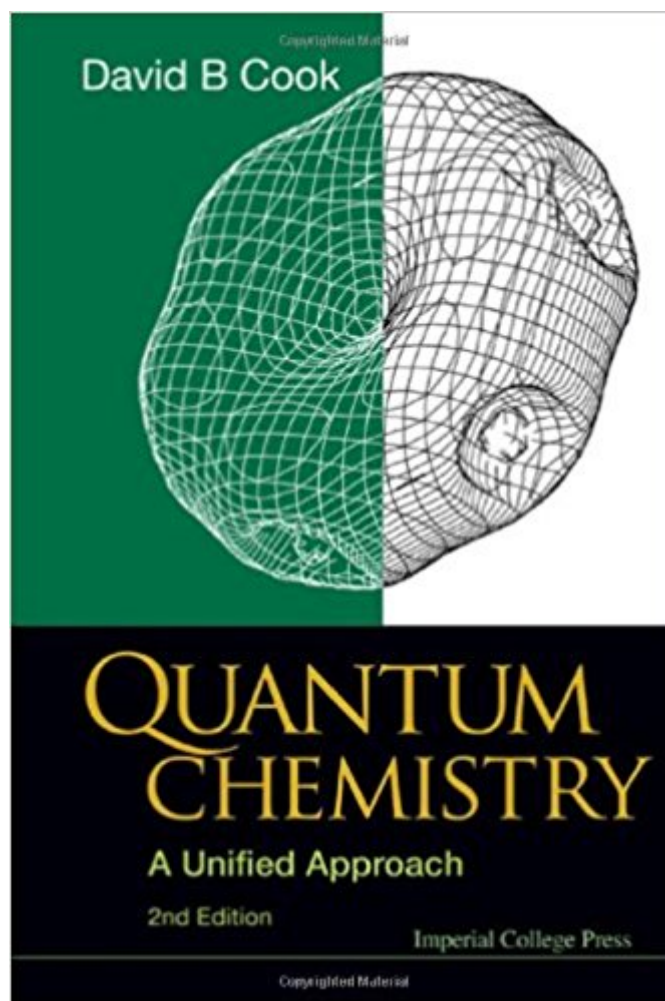


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Quantum Chemistry: A Unified Approach (2nd Edition)



Synopsis

This book is a presentation of a qualitative theory of chemical bonding, stressing the physical processes which occur on bond formation. It 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.

Book Information

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Customer Reviews

Review of the First Edition: "The text is written in an easy-to-access style that is broken down into clear chapters of progression ... would consider the book to be valuable reading for anyone on a chemistry degree, or a degree in a related subject ... first year students in particular would welcome this text as a valuable guide to navigating the fields of chemistry, as it addresses the eternal question of students encountering quantum chemistry for the first time ... It should be essential reading for anyone who wishes to become an educator in the field of chemistry." --Reviews

This book is a presentation of a qualitative theory of chemical bonding stressing the physical processes which occur on bond formation. It differs from most (if not all) other books in that it does not seek to "rationalize" 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. Compared to the first edition, a new chapter on the quantum theory of polymers and solids is added. More problems and worked solutions are included. Also, minor changes and updates are also made throughout the textbook to facilitate enhanced understanding.

This book is a valuable guide for people who are interested in quantum chemistry, especially for first year students. It is also a good textbook for an educator in quantum chemistry

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