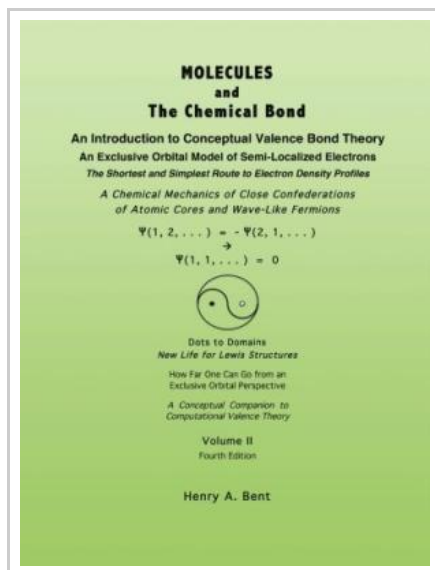




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By Henry A. Bent

Trafford Publishing, Canada, 2013. Paperback. Book Condition: New. 279 x 210 mm. Language: English . Brand New Book ***** Print on Demand *****.MOLECULES and the Chemical Bond is about understanding Schrodinger s equation, for chemical systems. In his famous Lectures on Physics, Richard Feynman quotes Paul Dirac on what it means to understand an equation. I understand what an equation means, said Dirac, if I have a way of figuring out the characteristics of its solutions without actually solving it. That hits the nail on the head! It s precisely what Conceptual Valence Bond Theory does for Schrodinger s equation. A physical understanding of an equation, adds Feynman, is a completely unmathematical, imprecise, and inexact thing, but absolutely necessary for a physicist. It unfolds in MCB in two stages, described by Newton as a stage of Analysis (a union of observations and inductions) and a stage of Synthesis (use of inductions, accepted as first principles, to explain observations). The book s chief vehicle for creating an intuitive understanding of solutions of Schrodinger s equation is the world s largest - and to the author s knowledge, virtually only - library of line drawings of exclusive orbital models of chemical species...



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