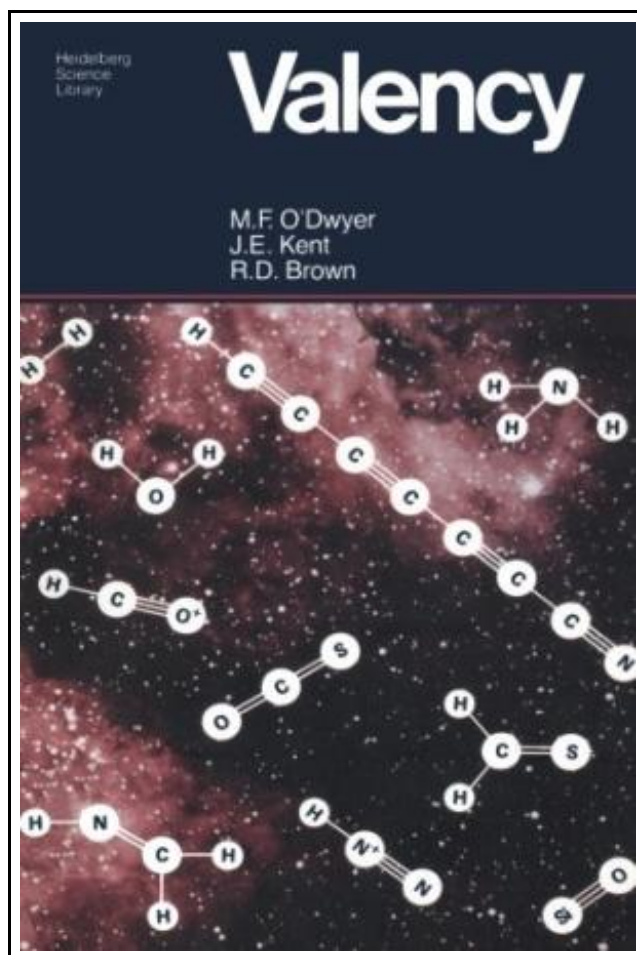


# Valency



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## Reviews

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## VALENCY



Book Condition: New. Publisher/Verlag: Springer, Berlin | This book was written after one of us published two editions of a smaller book (Atomic Structure and Valency by R. D. Brown, 1961 and 1966) and from the experiences of all three of us teaching a first-year university course in valency at Monash University. Our object has been to give enough of an historical introduction to quantum mechanics to enable a student to grasp the fundamental ideas without being subjected to much mathematical formalism. We have also tried to avoid making erroneous statements in the interest of simplicity (e. g" the widespread tendency to ignore the difference between  $2p_x$ ,  $2p_y$ ,  $2p_z$  because these lead to irritation and confusion of the better students, when they proceed to further studies of chemical quantum mechanics. The topics we have chosen to expand upon-i. e. , energy levels of electrons in atoms, energetic considerations of bonding in diatomic molecules, and packing of ions in the simplest solid state structures we believe form a good basis for students to progress to more complicated systems in a qualitative way. Both space and the intended level of the book have necessitated that the experimental section on spectroscopic and diffraction methods be very introductory. Again we believe that it is essential for a student to have some acquaintance with this, if the whole subject is to have a firm basis. | 1 Introduction.- SI Units.- Derived SI Units.- Prefixes for Fractions and Multiples of SI Units.- Units Contrary to SI.- Energy Units in Valency.- Classical Forms of Energy.- Problems.- 2 Gross Atomic Structure.- The Early Clues.- The Rutherford Experiment.- Discovery of the Neutron and Periodic Classification of the Elements.- Problems.- 3 Atomic Theory.- Two Spanners in the Works.- The Michelson-Morley Experiment.- Blackbody Radiation.- Dual Nature...



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