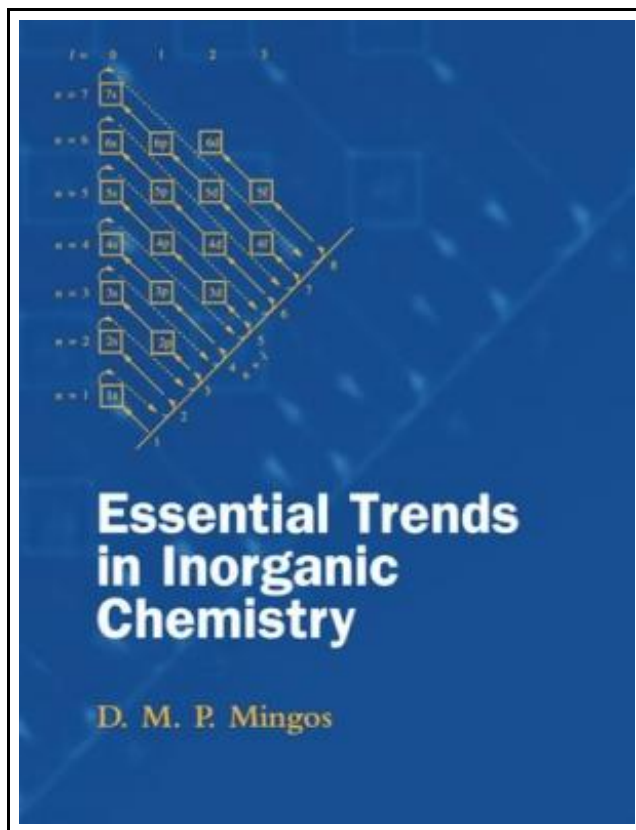


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Oxford University Press, United Kingdom, 1998. Paperback. Book Condition: New. New.. 242 x 188 mm. Language: English . Brand New Book ***** Print on Demand *****.The growth of inorganic chemistry during the last fifty years has made it almost impossible for the student to assimilate all the factual information available. This book is designed to help the student begin to tackle this task by showing exactly how a chemist uses the Periodic Table to organize and process this mass of information. After opening with a clear description of the quantum mechanical basis of the Periodic Table, the author goes on to illustrate how a modern inorganic chemist uses the basic structure of the Periodic Table to interpret a wide range of chemical phenomena. Rather than giving the descriptive chemistries of the groups of elements, the author takes specific atomic, physical, and chemical properties and illustrates how the variations are interpreted. Thus he describes vertical trends, horizontal and diagonal trends, and then isoelectronic relationships. The latter provides a basis for developing bonding models which account for the structures and reactivities of molecules. Finally he describes the horizontal and vertical relationships associated with the transition metals, the lanthanides, and the actinides. The basic methodology developed in Essential trends in inorganic chemistry will enable the student to apply these basic principles to other problems and to assimilate more detailed accounts of modern inorganic chemistry in a structured way. D. M. P. Mingos is Sir Edward Frankland BP Professor of Inorganic Chemistry at Imperial College of Science, Technology and Medicine, London, and Dean of the Royal College of Science. He is the author of Essentials of inorganic chemistry (1995) also published by Oxford University Press and Introduction to Cluster Chemistry (with D. J. Wales).



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