

## Principles of Inorganic Chemistry (Second Revised and Enlarged Edition)



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## PRINCIPLES OF INORGANIC CHEMISTRY (SECOND REVISED AND ENLARGED EDITION)



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Viva Books Private Limited, 2015. Softcover. Book Condition: New. 2nd edition. Description: Principles of Inorganic Chemistry predicates on an account of fundamental principles and their applications to the study of elements. The comparative chemistry of inorganic compounds is discussed with special reference to periodicity, structure, bonding and reactivity. Recent advances in important segments of chemical bonding, allotropes, coordination compounds, organometallic derivatives and kinetics have been taken into consideration. The text covers almost every component of inorganic chemistry that is included in the curriculum prescribed for professional degrees. It disseminates information in a clear, systematic and easy-to-learn format. The basic structure of the present text is same as that of its earlier edition. Yet, we have rearranged a good number of sections and updated the concepts and theories pertaining to the chemistry of elements. Two new chapters, viz. ?Redox Reactions? and ?Bioinorganic Chemistry? have been incorporated in this edition. Several new topics, including term symbols, lithium batteries, polymerization isomers and fluxional behaviours of organometallics find a place in the text. Inorganic compounds belonging to such classifications as nitrides, phosphazenes and oxides too have been added. The principles governing inorganic chemistry have been contextualized in a simple and clear format. Contents: Preface to the Second Edition ? Preface to the First Edition ? Abbreviations Chapter 1 Atomic Structure: Introduction ? The Electron ? The Proton ? The Neutron ? The Nucleus ? Rutherford Model of Atom ? Electromagnetic Radiation ? Wave Nature of Light ? Particle Nature of Light ? Proofs of particle nature of light ? Photoelectric effect ? Compton effect ? Electromagnetic Spectrum ? Atomic Spectrum ? Failure of Rutherford Model ? Bohr Model of Atom ? Bohr?s picture of hydrogen atom ? Bohr?s explanation for hydrogen spectrum ? Failure of Bohr model ? Particle Nature of Electron ? Wave...

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