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Description Aimed at senior undergraduates and first-year graduate students, this book offers a principles-based approach to inorganic chemistry that, unlike other texts, uses chemical applications of group theory and molecular orbital theory throughout as an underlying framework. Aimed at senior undergraduates and first-year graduate students, this book offers a principles-based approach to inorganic chemistry that, unlike other texts, uses chemical applications of group theory and molecular orbital theory throughout as an underlying framework. This highly physical approach allows students to derive the greatest benefit of topics such as molecular orbital acid-base theory, band theory of solids, and inorganic photochemistry, to name a few. This course provides a systematic presentation of the chemical applications of group theory with emphasis on the formal development of the subject and its applications to the physical methods of inorganic chemical compounds. Against the backdrop of electronic structure, the electronic, vibrational, and magnetic properties of transition metal ... Principles of Inorganic Chemistry III by Prof. Christopher Cummins, MIT File Type : Online Number of Pages : NA Description This note covers the following topics: introduction and theory, aluminum chemistry, phosphorus , gallium and indium , gallium multiple bonds , gallium phosphorus and tin , nitrogen halogens noble gases , fluorine krypton ...