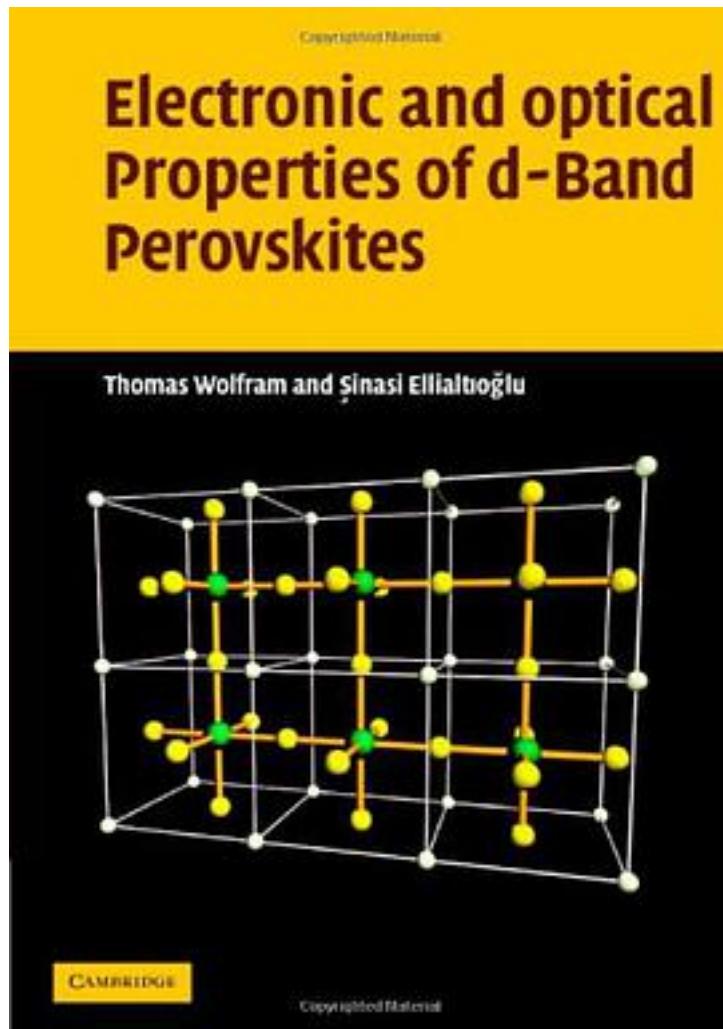


Electronic and Optical Properties of d-Band Perovskites



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The perovskite family of oxides includes a vast array of insulators, metals, and semiconductors. Current intense scientific interest stems from the large number of diverse phenomena exhibited by these materials including pseudo two-dimensional electronic energy bands, high temperature superconductivity, metal-insulator transitions, piezoelectricity, magnetism, photochromic, and catalytic activity. This book is the first text devoted to a comprehensive theory of the solid-state properties of these fascinating materials. The text includes complete descriptions of the important energy bands, photoemission, surface states, and the chapter on high-temperature superconductors explores the electronic states in typical copper-oxide materials. Theoretical results are compared to experiment and discussed throughout the book. With problem sets included, this is a unified, logical treatment of fundamental perovskite solid-state chemistry which will appeal to graduate students and researchers alike.

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