



# Transition Metal Compounds

By Daniel I. Khomskii

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Describing all aspects of the physics of transition metal compounds, this book provides a comprehensive overview of this unique and diverse class of solids. Beginning with the basic concepts of the physics of strongly correlated electron systems, the structure of transition metal ions, and the behaviours of transition metal ions in crystals, it goes on to cover more advanced topics such as metal-insulator transitions, orbital ordering, and novel phenomena such as multiferroics, systems with oxygen holes, and high- $T_c$  superconductivity. Each chapter concludes with a summary of key facts and concepts, presenting all the most important information in a consistent and concise manner. Set within a modern conceptual framework, and providing a complete treatment of the fundamental factors and mechanisms that determine the properties of transition metal compounds, this is an invaluable resource for graduate students, researchers and industrial practitioners in solid state physics and chemistry, materials science, and inorganic chemistry.

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#### Review

"Khomskii successfully leads the reader through the field of transition-metal compounds by focusing on physical insight without detailed mathematical derivations. He has a deep understanding of the field and communicates his knowledge very well."

Thomas M. Cooper, MRS Bulletin

"The author concludes each chapter with a short summary that repeats the chapter's main ideas in a concentrated form. Those addenda enhance the pedagogical effect of the monograph and make it a highly useful introduction to the physics of TM oxides for nascent and experienced experimentalists and theoreticians working in that and adjacent fields of strongly correlated systems."

Konstantin Kikoin, Physics Today

#### About the Author

Daniel I. Khomskii is a professor at the University of Köln, Germany, where his research interests focus on metal-insulator transitions, magnetism, orbital ordering and superconductivity. He is a Fellow of the American Physical Society.

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