

Springer Series in Solid-State Sciences 163

V. Anisimov

Y. Izyumov


**Electronic Structure of Strongly
Correlated Materials**

Electronic structure and physical properties of strongly correlated materials containing elements with partially filled 3d, 4d, 4f and 5f electronic shells is analyzed by Dynamical Mean-Field Theory (DMFT). DMFT is the most universal and effective tool used for the theoretical investigation of electronic states with strong correlation effects. In the present book the basics of the method are given and its application to various material classes is shown. The book is aimed at a broad readership: theoretical physicists and experimentalists studying strongly correlated systems. It also serves as a handbook for students and all those who want to be acquainted with fast developing field of condensed matter physics.

ISBN 978-3-642-04825-8



9 783642 048258

 springer.com

