
Description: This book deals with functional materials that are in the frontiers of current materials science and technology research, development and manufacture. The first of its kind, it deals with three classes of materials, (1) magnetic semiconductors, (2) multiferroics, and (3) graphene. Because of the wide popularity of these materials there is a strong need for a book about these materials for graduate students, new researchers in science and technology, as well as experienced scientists and technologists, technology based companies and government institutes for science and technology. The book will provide this broad audience with both theoretical and experimental understanding to help in technological advances in the development of devices and related new technologies based on these very interesting and novel materials.

- Covers both the theoretical and experimental aspects of advanced functional materials, which are important for use in a number of rapidly developing novel technological devices
- Includes excellent coverage of three of the leading advanced functional materials
- Edited by a leading expert at the forefront of advanced functional materials research

Contents:
1. Theory of Diluted Magnetic Semiconductors, by Biplab Sanyal, Olle Eriksson, Igor di Marco, Patrik Thunström, Johan Hellsvik, Diana M. Iusan, Lars Bergqvist and Peter Dederichs
2. Growth and magnetotransport properties of III-V Diluted Magnetic Semiconductors, by Janusz Sadowski and Jaroslaw Domagala
3. Electronic structure characterization by spectroscopic methods, by Ronny Knut and Olof Karis
4. Theory of magnetism in graphene, by Oleg V. Yazyev and Mikhail Katsnelson
5. Synthesis of graphene and derivatives, by Helena Grennberg and Ulf Jansson
6. Multiferroics: theory, mechanisms and materials, by Paolo Barone, Silvia Picozzi and Biplab Sanyal
7. Magnetoelectric complex metal oxides: main features of preparation, structure and properties, by Sergey A. Ivanov

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