



## **MoS2: Materials, Physics, and Devices (Lecture Notes in Nanoscale Science and Technology)**

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## MoS2: Materials, Physics, and Devices (Lecture Notes in Nanoscale Science and Technology)

This book reviews the structure and electronic, magnetic, and other properties of various MoS<sub>2</sub> (Molybdenum disulfide) nanostructures, with coverage of synthesis, Valley polarization, spin physics, and other topics. MoS<sub>2</sub> is an important, graphene-like layered nano-material that substantially extends the range of possible nanostructures and devices for nanofabrication. These materials have been widely researched in recent years, and have become an attractive topic for applications such as catalytic materials and devices based on field-effect transistors (FETs) and semiconductors.

Chapters from leading scientists worldwide create a bridge between MoS<sub>2</sub> nanomaterials and fundamental physics in order to stimulate readers' interest in the potential of these novel materials for device applications. Since MoS<sub>2</sub> nanostructures are expected to be increasingly important for future developments in energy and other electronic device applications, this book can be recommended for Physics and Materials Science and Engineering departments and as reference for researchers in the field.

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