



# **Handbook of Zinc Oxide and Related Materials: Volume One, Materials: 1 (Electronic Materials and Devices)**

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Through their application in energy-efficient and environmentally friendly devices, zinc oxide (ZnO) and related classes of wide gap semiconductors, including GaN and SiC, are revolutionizing numerous areas, from lighting, energy conversion, photovoltaics, and communications to biotechnology, imaging, and medicine. With an emphasis on engineering and materials science, **Handbook of Zinc Oxide and Related Materials** provides a comprehensive, up-to-date review of various technological aspects of ZnO.

**Volume One** presents fundamental knowledge on ZnO-based materials and technologies. It covers the basic physics and chemistry of ZnO and related compound semiconductors and alloys. The first part of this volume discusses preparation methods, modeling, and doping strategies. It then describes epitaxial methods used to create thin films and functional materials. The book concludes with a review of alloys and related materials, exploring their preparation, bulk properties, and applications.

Covering key properties and important technologies of ZnO-based devices and nano-engineering, the handbook highlights the potential of this wide gap semiconductor. It also illustrates the remaining challenging issues in nanomaterial preparation and device fabrication for R&D in the twenty-first century.



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