



Zinc Oxide Bulk, Thin Films and Nanostructures: Processing, Properties, and Applications

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With an in-depth exploration of the following topics, this book covers the broad uses of zinc oxide within the fields of materials science and engineering:

- Recent advances in bulk , thin film and nanowire growth of ZnO (including MBE, MOCVD and PLD),
- The characterization of the resulting material (including the related ternary systems ZgMgO and ZnCdO),
- Improvements in device processing modules (including ion implantation for doping and isolation ,Ohmic and Schottky contacts , wet and dry etching),
- The role of impurities and defects on materials properties
- Applications of ZnO in UV light emitters/detectors, gas, biological and chemical-sensing, transparent electronics, spintronics and thin film



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