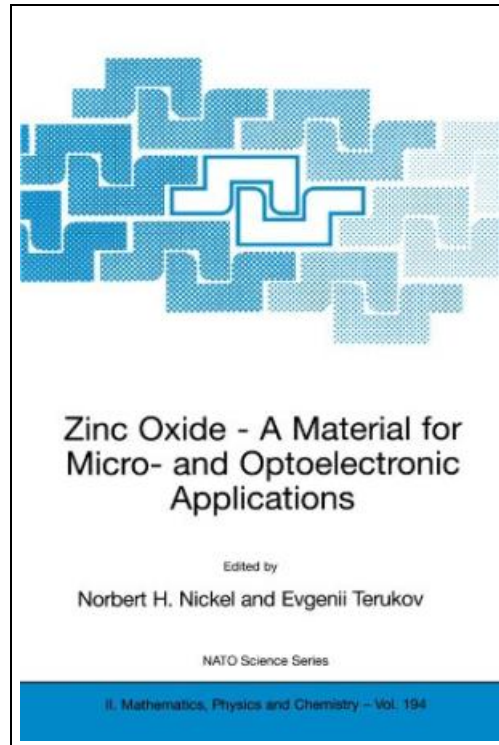


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Springer-Verlag New York Inc., United States, 2005. Paperback. Condition: New. 2005 ed.. Language: English . Brand New Book ***** Print on Demand *****.Recently, a significant effort has been devoted to the investigation of ZnO as a suitable semiconductor for UV light-emitting diodes, lasers, and detectors and hetero-substrates for GaN. Research is driven not only by the technological requirements of state-of-the-art applications but also by the lack of a fundamental understanding of growth processes, the role of intrinsic defects and dopants, and the properties of hydrogen. The NATO Advanced Research Workshop on Zinc oxide as a material for micro- and optoelectronic applications, held from June 23 to June 25 2004 in St. Petersburg, Russia, was organized accordingly and started with the growth of ZnO. A variety of growth methods for bulk and layer growth were discussed. These techniques comprised growth methods such as closed space vapor transport (CSVT), metal-organic chemical vapor deposition, reactive ion sputtering, and pulsed laser deposition. From a structural point of view using these growth techniques ZnO can be fabricated ranging from single crystalline bulk material to polycrystalline ZnO and nanowhiskers. A major aspect of the ZnO growth is doping. n-type doping is relatively easy to accomplish with elements such as Al or Ga. At room temperature single crystal ZnO exhibits a resistivity of about 0.3 Ω -cm, an electron mobility of 2.17-3.225 cm²/Vs, and a carrier concentration of 10¹⁸ cm⁻³. In n-type ZnO two shallow donors are observable with activation energies of 30-40 meV and 60-70 meV.

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