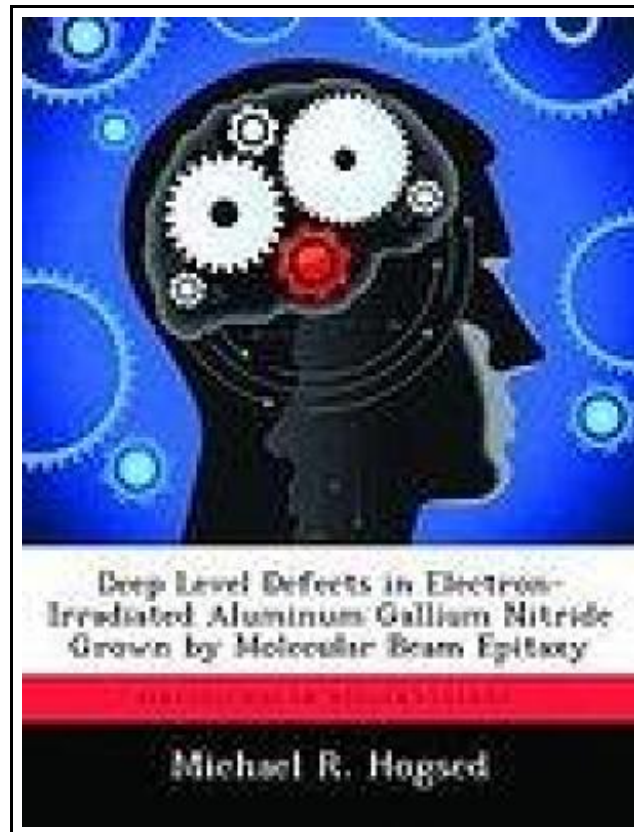


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Biblioscholar Okt 2012, 2012. Taschenbuch. Book Condition: Neu. 246x189x12 mm. This item is printed on demand - Print on Demand Neuware - Aluminum gallium nitride (AlGa_N)-based devices are attractive candidates for integration into future Air Force communication and sensor platforms, including those that must operate in harsh radiation environments. In this study, the electrical and optical properties of 1.0 MeV electron irradiated n-Al_xGa_{1-x}N are characterized for aluminum mole fraction $x = 0.0$ to 0.3 using deep level transient spectroscopy (DLTS), temperature-dependent Hall, and cathodoluminescence (CL) measurements. Following irradiation of the AlGa_N, it is found that four different electron traps are created, having energy levels within 0.4 eV below the conduction band edge. Three of these traps correspond to radiation-induced traps previously reported in GaN, and they are found to deepen significantly in the energy band gap with increase in aluminum mole fraction. The room temperature carrier concentration decreases following irradiation, and the carrier removal rate is found to depend foremost on the initial carrier concentration, regardless of the aluminum mole fraction. Also, following 1.0 MeV electron irradiation at a fluence of $1 \times 10^{17} \text{ cm}^{-2}$, the peak CL intensities of the samples are reduced, on average, by 50%. In spite of these findings, it is concluded that n-Al_xGa_{1-x}N is intrinsically more tolerant to radiation than conventional semiconductor materials such as GaAs and Si. 206 pp. Englisch.

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