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Investigation of Electrical and Optical Properties of Bulk III-V Ternary Semiconductors

By Travis C. Gomez

Biblioscholar Nov 2012, 2012. Taschenbuch. Book Condition: Neu. 246x189x4 mm. This item is printed on demand - Print on Demand Neuware - Bulk grown III-V ternary semiconductors of $\text{In}_{0.08}\text{Ga}_{0.92}\text{Sb}$ and $\text{In}_{0.15}\text{Ga}_{0.85}\text{As}$ were investigated through Hall-effect and photoluminescence measurements to determine carrier concentration, mobility, sheet resistivity, and luminescence spectrum. In the past, epitaxial layers of ternary compounds have been grown on binary compound substrates, and thus very limited lattice matched ternary alloys were available. Recently, bulk grown ternary substrates have been developed, and it has presented a renewed interest in using these substrates to grow high quality ternary compounds for use in many next generation optoelectronic devices. The results of photoluminescence (PL) study for the $\text{In}_{0.15}\text{Ga}_{0.85}\text{Sb}$ sample show the exciton bound to neutral acceptor (A_0X) transition peak at 0.675 eV along with a donor-shallow acceptor pair transitions at 0.650 eV, and the donor-deep acceptor pair transition peak at 0.628 eV. 68 pp. Englisch.



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