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GaAs and Related Materials - World Scientific

GaAs and related materials. by Sadao Adachi. ADDITIONAL INFORMATION. Publication date. 1994. Original title. GaAs and related materials: bulk semiconducting and superlattice properties. ISBN. 9789810219253. Number of pages. 675. You may also like. Jackie French. Rick Kennett ...

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Material: Gallium Arsenide (GaAs), bulk

Gallium arsenide It is a III-V direct band gap semiconductor with a zinc blende crystal structure. Gallium arsenide is used in the manufacture of devices such as microwave frequency integrated circuits, monolithic microwave integrated circuits, infrared light-emitting diodes, laser diodes, solar cells and optical windows. GaAs is often used as a substrate material for the epitaxial growth of other III-V semiconductors, including indium gallium arsenide, aluminum gallium arsenide and others.

Gallium arsenide - Wikipedia

The problem of chromium outdiffusion has been eliminated through a combination of reducing the background carbon concentration and precise control of the stoichiometry during the growth of bulk GaAs to produce undoped semi-insulating (10<sup>7</sup>-10<sup>8</sup> Ω-cm) GaAs. The growth stoichiometry controls the EL2 deep-donor density, which compensates the remaining background carbon acceptor concentration.

Gaas Substrate - an overview | ScienceDirect Topics

Empirical tight-binding (sp<sup>3</sup> s\*) band structure of GaAs and GaP. The empirical tight-binding model that is used here is based on the sp<sup>3</sup> s\* Hamiltonian, i.e. the 10 x 10 matrix given in Table (A) of [Vogl] A semi-empirical tight-binding theory of the electronic structure of semiconductors

1D Tight-binding band structure of bulk materials

World Scientific, 2005. 696 p. ISBN 978-981-02-1925-3 This book covers the various material properties of bulk GaAs and related materials, and aspects of the physics of artificial semiconductor microstructures, such as quantum wells and superlattices, made of these materials. A complete set of...

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We speculate that the slight reduction in value for the LO phonon energy, compared to bulk zinc blende GaAs, may be the result of wurtzite segments in our polytypic nanowires. 59|61 Thus, the temperature dependence of both the electron mobility and PL FWHM indicate that at room temperature the primary scattering mechanism in our modulation doped nanowires arises from LO phonons.