

GaInAsP Alloy Semiconductors



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This is a comprehensive, state-of-the-art survey of the materials properties and device technology of this important semiconductor alloy which can be grown epitaxially on InP substrates. The book is divided into three parts: (1) material preparation, including crystal growth and ion implantation; (2) physics of GaInAsP, including band structure, electronic, and optical properties; and (3) GaInAsP devices, including the technology and performance of optical and electronic devices.

This full and authoritative treatment of the GaInAsP/InP system will be an essential text for anyone whose interests include semiconductor optoelectronics and its applications in optical fibre telecommunications, integrated optics, and high-speed electron devices.

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