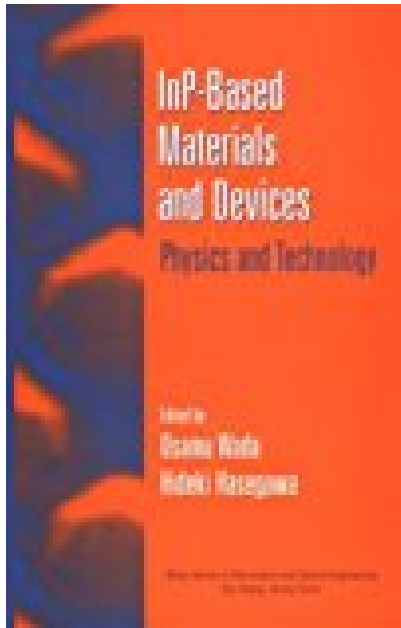


# **InP-Based Materials and Devices Physics and Technology Wiley Series in Microwave and Optical Engineering**

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## **BOOK DETAILS**

- Author :
- Pages : 600 Pages
- Publisher : Wiley-Interscience
- Language : English
- ISBN : 0471181919



## BOOK SYNOPSIS

A comprehensive guide to current techniques, applications, and trends in InP-based technologies. Introducing one of the hottest technologies in the semiconductor industry, this collection of articles by international leading experts covers the state of the art of indium phosphide (InP)-based materials and devices. From current industry practices to cutting-edge developments to promising research trends, each chapter describes a particular aspect of the technology, giving scientists and engineers the necessary information, including physical principles and technical know-how, to design, apply, and troubleshoot these high-performance, low-cost components for diverse systems-TDM and WDM optical systems or microwave and millimeter-wave systems. The advantages and challenges still to overcome of InP-based semiconductors as compared with the more mature GaAs technology are also thoroughly reviewed. Presented in an easy-to-understand tutorial style, with topics cross-referenced between chapters, InP-Based Materials and Devices features more than 1,500 references as well as 365 figures and tables. Key topics include: \* Basic materials physics involved in a wide range of InP-based compounds. \* Growth of high-purity bulk and heterostructure epitaxy, including MOCVD, MBE, and GS-MBE. \* Hetero-interface control and dry process techniques for device fabrication. \* High-performance heterojunction-FETs and HEMTs as well as HBTs for high-speed IC and MMIC applications. \* Lasers, amplifiers, and modulators as well as photodiodes and receivers for high-speed and WDM networks. \* Optoelectronic integration and packing for functional, low-cost modules.

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