

The MOCVD Challenge: Volume 2: A Survey of GaInAsP-GaAs for Photonic and Electronic Device Applications (v. 2)

By Manijeh Razeghi

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The MOCVD Challenge: Volume 2, A Survey of GaInAsP-GaAs for Photonic and Electronic Device Applications focuses on GaAs systems and devices grown by MOCVD, specifically MOCVD growth of GaAs and related alloys and GaInP for photonic and electronic applications. Along with Volume 1, this book provides a personal account of the author's own pioneering research, an authoritative overview of the development of the MOCVD technique, and the technique's impact on the development of new materials, devices, and their applications.

Coverage begins with an introduction to III-V compounds and devices and growth techniques for multilayers and heterostructures. The book then details how an MOCVD system works and how design affects material growth and sourcing of precursor materials. It also examines In- and In-situ growth techniques, with the differential reflectivity treatment applied to lattice matched and mis-matched conditions. The author gives an in-depth treatment of the GaInP-GaAs system, including optical investigations of quantum wells and superlattices. The book concludes with an up-to-date discussion of the current use, novel developments, and future potential for optical devices, GaAs-based lasers and heterojunctions, and optoelectronic integrated circuits.

The MOCVD Challenge is an invaluable introduction and guide for researchers in materials science, applied physics, and electrical engineering, who study the properties and applications of compound (III-V) semiconductor materials.

Professor Manijeh Razeghi is director of the Center for Quantum Devices at Northwestern University and leads an internationally renowned research team exploring the use of the MOCVD growth technique. Formerly head of research at Thomson-CSF in France, she was awarded the IBM Europe Science and Technology Prize for her early research into MOCVD.

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