



Organometallic Vapor-Phase Epitaxy: Theory and Practice

Gerald B. Stringfellow

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Here is one of the first single-author treatments of organometallic vapor-phase epitaxy (OMVPE)--a leading technique for the fabrication of semiconductor materials and devices. Also included are metal-organic molecular-beam epitaxy (MOMBE) and chemical-beam epitaxy (CBE) ultra-high-vacuum deposition techniques using organometallic source molecules. Of interest to researchers, students, and people in the semiconductor industry, this book provides a basic foundation for understanding the technique and the application of OMVPE for the growth of both III-V and II-VI semiconductor materials and the special structures required for device applications. In addition, a comprehensive summary detailing the OMVPE results observed to date in a wide range of III-V and II-VI semiconductors is provided. This includes a comparison of results obtained through the use of other epitaxial techniques such as molecular beam epitaxy (MBE), liquid-phase epitaxy (LPE), and vapor phase epitaxy using halide transport.

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