



## **Broadband Optical Modulators: Science, Technology, and Applications**

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# Broadband Optical Modulators: Science, Technology, and Applications

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*"...provides the full, exciting story of optical modulators. ... a comprehensive review, from the fundamental science to the material and processing technology to the optimized device design to the multitude of applications for which broadband optical modulators bring great value. ... Especially valuable in my view is that the authors are internationally known researchers, developers, and systems people who are experts in their field, writing now, with the perspective that time offers, about their groundbreaking work. "*

—Dr. Rodney C. Alferness, Senior Vice President of Optical Networking Research at Lucent Technologies' Bell Labs

Considered the most comprehensive book yet published on this critical subject, **Broadband Optical Modulators: Science, Technology, and Applications** offers an incredibly wide-ranging yet in-depth overview of the state of the art in the design and use of optical modulators. A compilation of expert insights, this book covers fundamental and practical aspects, from materials to systems, addressing historical and more recent developments.

Coverage includes:

- Optical and electro-optic properties of traditional single crystalline lithium niobate, silicon, and III-V compound semiconductors, as well as emerging electro-optic polymers and organic nonlinear optic crystals
- Discussion of factors important to modulator design, fabrication, and performance
- Fundamental topics, such as electro-optic effect in nonlinear optic crystals and semiconductors

Leaders in the field created this invaluable reference for scientific researchers involved in high-speed device research and development, especially in the areas of optical transmitters and optical modulators for fiber-optics communication systems. Helping readers master optical modulation techniques, this book will be invaluable to engineers (system/subsystem designers, product developers, and technical and project

managers) and other professionals in the telecommunications and defense industries. It offers the audience—which includes graduate students—an in-depth understanding of the new modulator architectures and technologies now available, as well as the strengths, weaknesses, advantages, and trade-offs associated with each.



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