



Electrooptics: Phenomena, Materials and Applications

By Jose Manuel Cabrera, Fernando Agullo-Rueda

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This comprehensive text provides an understanding of the physical phenomenon behind electrooptics. It describes in detail modern electrooptic materials and operative physical mechanisms, and devotes a full chapter to the new materials engineering that is contributing to the development of low-dimensional systems. The book also reviews device applications in both bulk and waveguide technologies.

- Provides extensive coverage in a self-contained format, and consequently useful to beginners as well as specialists
- Includes the most current information
- Features many tables and illustrations to facilitate understanding

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Editorial Review

From the Back Cover

This book introduces the fundamental concepts and phenomena of electrooptics at an undergraduate and graduate level. It establishes the intimate connection with nonlinear optics that provides the natural framework for an advanced description.

A broad overview of inorganic materials, including ceramics and novel single crystals, such as KTP and BBO, is presented. Some key materials such as LiNbO_3 are discussed in detail. Liquid crystals and ferroelectric liquid crystals are also described at some length, and attention is paid to recent developments in the field of molecular materials (including polymers and LB films). A whole chapter is devoted to the promising field of semiconductor nanostructures, with interesting electrooptic effects associated to quantum confinement. Waveguide and integrated optics devices, presenting specific theoretical and practical features, constitute another chapter. Photorefractive processes and materials are, finally, discussed as a relevant outcome of the synergy between electrooptics and photoconductivity.

Applications of all these phenomena to a variety of devices, from deflectors to spacial light modulators, are described. Extensive tables make the book useful as a reference handbook. A large up-dated references facilitates the access of the reader to the current literature. Carefully selected or designed illustrations aid understanding of the text.

Users Review

From reader reviews:

William Mayer:

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