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Guided-Wave Acousto-Optics: Interactions, Devices, and Applications (Springer Series in Electronics and Photonics)

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The field of integrated- or guided-wave optics has experienced significant and continuous growth since its inception in the late 1960s. There has been a considerable increase in research and development activity in this field worldwide and some significant advances in the realization of working in tegrated optic devices and modules have been made in recent years. In fact, there have already been some commercial manufacturing and technical ap plications of such devices and modules. The guided-wave-acoustooptics involving Bragg interactions between guided optical waves and surface acoustic waves is one of the areas of in tegrated-optics that has reached some degree of scientific and technological maturity. This topical volume is devoted to an in-depth treatment of this emerging branch of science and technology. Presented in this volume are concise treatments on bulk-wave acoustooptics, guided-wave optics, and surface acoustic waves, and detailed studies of guided-wave acoustooptic Bragg diffraction in three promising material substrates, namely, LiNb0 , 3 ZnO/Si0 , and GaAs, the resulting wide band modulators and deflectors, 2 and applications. The chapters cover not only the basic principles and the oretical analysis, but also the design, fabrication, and measurement of the resulting devices and modules, and their applications.

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