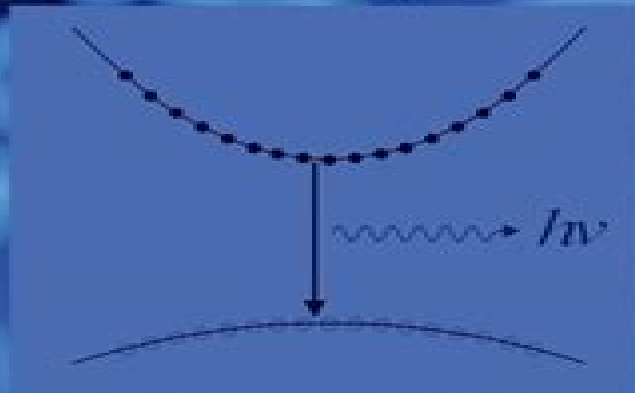


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Qu,Haiwen Cai,2012-09-04 This book describes the latest development in optical fiber devices and their applications to sensor technology Optical fiber sensors an important application of the optical fiber have experienced fast development and attracted wide attentions in basic science as well as in practical applications Sensing is often likened to human sense organs Optical fiber can not only transport information acquired by sensors at high speed and large volume but also can play the roles of sensing element itself Compared with electric and other types of sensors fiber sensor technology has unique merits It has advantages over conventional bulky optic sensors such as combination of sensing and signal transportation smaller size and possibility of building distributed systems Fiber sensor technology has been used in various areas of industry transportation communication security and defense as well as daily life Its importance has been growing with the advancement of the technology and the expansion of the scope of its application a growth this book fully describes

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Andrushchak,N. M. Demyanyshyn,2023-06-20 This book addresses analytical descriptions and geometric representations of the spatial anisotropy of induced optical effects in crystalline materials of different symmetry classes as well as experimental methods and apparatus for the comprehensive studies of electro piezo elasto and acousto optic phenomena in crystalline solids It also details 3D analysis of the anisotropies of linear electro optic piezo optic elasto optic acoustic and acousto optic properties of various crystalline materials and constructs indicative or extreme surfaces describing the anisotropy effect

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Photonics and Optoelectronics in Industry 5.0 Vanita Bhardwaj, Sonal Khurana, Rekha Bhardwaj, 2025-08-10 This book presents the role of photonic and optoelectronics with a focus on transformation of Industry 5.0 This book offers in depth discussion of interfaces between human machine collaboration The introductory chapters discuss the fundamentals of photonics and optoelectronics as well as its use in real time monitoring additive manufacturing and precision machining Additionally focus is placed on sustainability and energy efficiency demonstrating how photonics may enhance industrial processes and assist renewable energy management Finally the book reviews the development of machine learning methods for optimization and the integration of artificial intelligence with photonic systems which are described in ample detail In order to assist researchers those are not familiar with the subfield each chapter starts by providing an overview of the primary concepts to be discussed

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Meade, 2011-10-30 Since it was first published in 1995 Photonic Crystals has remained the definitive text for both undergraduates and researchers on photonic band gap materials and their use in controlling the propagation of light This newly expanded and revised edition covers the latest developments in the field providing the most up to date concise and comprehensive book available on these novel materials and their applications Starting from Maxwell's equations and Fourier analysis the authors develop the theoretical tools of photonics using principles of linear algebra and symmetry emphasizing analogies with traditional solid state physics and quantum theory They then investigate the unique phenomena that take place within photonic crystals at defect sites and surfaces from one to three dimensions This new edition includes entirely

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