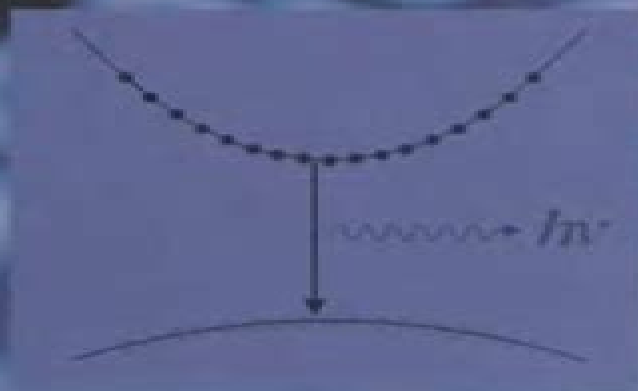


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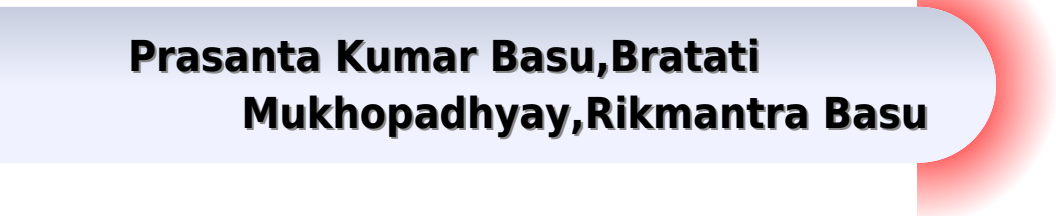
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Semiconductor Nanophotonics Prasanta Kumar Basu, Bratati Mukhopadhyay, Rikmantra Basu, 2022. One of the first comprehensive textbooks dealing with the modern field of Nanophotonics. Though emphasis is given on semiconductors, optical processes in metals and insulators are discussed as well. Provides basic theoretical models in simple terms and discusses the application areas.

Fundamentals of Fibre Optics in Telecommunication and Sensor Systems Bishnu P. Pal, 1992. Fibre Optics is a very important constituent of modern information technology. One major economic benefit offered by fibre optics is very high information transmission rate at low cost per circuit km. The first fibre optic telephone link went public in late 1970s. Ever since the industrially advanced nations around the world have been striving to deploy fibre optics in almost every sector of communication, including computer networks and data links. Rarely since the discovery of transistors have we noticed such a fantastic growth rate of a new technology as an important byproduct of this phenomenal progress. A new class of ultra-sensitive optical sensors and devices based on fibre optics has emerged, which are being developed for large scale use in industrial and biomedical sectors. This book provides semi-tutorial presentations of the fundamentals of this emerging technology as applied to telecommunication and sensor development. Each chapter, contributed by leading researchers, is appended with a large number of references to the original publications. The book is broadly divided into three parts. The first part is devoted to propagation effects in optical waveguides, including polarization and non-linear effects and their measurements. Fabrication and cabling technologies of optical fibres are also discussed in this part. The second part of the book deals with optical sources, detectors, integrated optical devices and system designs involved in optical communication technology. The last part of the book covers topics like intensity modulated and interferometric optical fibre sensors, in-line fibre optic components for signal processing and multiplexing of optical signals, and application of fibre optics in the power sector. The extensive coverage should prove useful to senior undergraduate and postgraduate students, researchers and also to R & D engineers who want a tutorial introduction to the technologies of fibre optic telecommunication and sensors.

Diffraction Nanophotonics Victor A. Soifer, 2016-04-19. Diffraction Nanophotonics

demonstrates the utility of the well established methods of diffractive computer optics in solving nanophotonics tasks It is concerned with peculiar properties of laser light diffraction by microoptics elements with nanoscale features and light confinement in subwavelength space regions Written by recognized experts in t

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