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### **INTRODUCTION TO INFRARED AND ELECTRO OPTICAL SYSTEMS PDF**

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Optoelectronics, An Introduction, 3rd Edition, by Wilson and Hawkes (Prentice Hall Europe, 1998). Course Description: This course will provide an introduction to electro-optical systems and components. Roughly half of the course is devoted to optical theory, with the remainder devoted to devices and systems.

### **EE481 INTRODUCTION TO ELECTRO-OPTICAL SYSTEMS**

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Introduction 1 1.1 Introduction to Imaging 2 1.2 Infrared and EO Systems 3 1.3 Wavelength Dependencies 4 ... 8.11 Electro-Optical Systems 298 8.12 Noise 299 ... Introduction to infrared and electro-optical systems Subject: Boston [u.a.], Artech House, 2012 Keywords:

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Introduction "Physical ... e.g. optical fiber transmission, the electro-magnetic radiation from near infrared range (850 nm, 1310 nm, 1550 nm) is used. Fig. 1.1. shows the electromagnetic radiation spectrum and allows to locate the radiation used in optical fiber transmission. In further parts of this

## **FUNDAMENTALS OF OPTOELECTRONICS AND FIBER OPTIC**

A Tutorial on Electro-Optical/Infrared (EO/IR) Theory and Systems. G. M. Koretsky . J. F. Nicoll . M. S. Taylor . Executive Summary This document is an annotated version of a seminar produced by IDA for the Office of the Deputy Assistant Secretary of Defense for Developmental Test and Evaluation.

### **A Tutorial on Electro-Optical/Infrared (EO/IR) Theory and**

INTRODUCTION TO MODERN ELECTRO-OPTICS ABSTRACT B. R. Jennings Electro-Optics Group, Physics Department Brunel University Uxbridge, U.K. The optical properties of many fluids and molecular solutions change when these media are subjected to suitable electric fields. The best known effect is the induction of electric birefringence

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The volume begins with a history of optical communications, leading to the now widely practiced field of fiber optics. Comparisons are made to conventional media and techniques: wire-line, coaxial cable, and radio. The nature and properties of optical fiber are examined, including manufacturing techniques, and fiber types and capabilities.

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