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An optical fiber communication system is similar in basic concept to any type of communication system. A block schematic of a general communication system is shown in Figure 1.2(a), the function of which is to convey the signal from the information source over the transmission medium to the destination. ...

CHAPTER# 3 OPTICAL FIBER COMMUNICATION

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INTRODUCTION Introduction, Ray theory transmission- Total internal reflection-Acceptance angle θ_c Numerical aperture NA Skew rays Electromagnetic mode theory of optical propagation EM

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An optical ray is guided by total internal reflections within the fiber core if its angle of incidence on the core-cladding boundary is greater than the critical angle $\theta_c = \sin^{-1}(n_2/n_1)$, and remains so as the ray bounces.

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6.1 OPTICAL FIBER COMMUNICATION

optic communication system. You will learn about the different types of fiber and their applications, light sources and detectors, couplers, splitters, wavelength-division multiplexers,

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TELECOMMUNICATION SYSTEMS AND TECHNOLOGIES " Vol. I -Optical Fibers - Atousa Vali Sichani and Hussein T. Mouftah OPTICAL FIBERS Atousa Vali Sichani and Hussein T. Mouftah University of Ottawa, Ontario, Canada Keywords: attenuation, bandwidth, data transmission, dispersion, frequency, modulation, multiplexing.

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