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Seventh Semester B.E. Degree Examination, June/July 2017

Optical Fiber Communication

Time: 3 hrs.

Max. Marks: 100

Note: Answer FIVE full questions, selecting at least TWO questions from each part.

PART – A

1.
 - a. Summarize the inherent advantages of optical fiber over conventional copper cables. (06 Marks)
 - b. Describe with neat diagram different types of optical fiber waveguides. Using ray theory, explain the propagation of light inside the fiber. (08 Marks)
 - c. A silica optical fiber with a core diameter large enough to be considered by ray theory analysis has a core refractive index of 1.5. A light ray is incident at the core-cladding interface with a critical angle of 78.5° . Estimate:
 - i) Refractive index of cladding
 - ii) Numerical aperture
 - iii) The acceptance angle in air for the fiber (06 Marks)
2.
 - a. Illustrate the different types of scattering losses in optical fiber with suitable equations. (08 Marks)
 - b. Explain what is meant by the critical bending radius for an optical fiber. Write equation of critical radius of curvature for multimode and single mode fibers. (06 Marks)
 - c. A multimode fiber with a core refractive index of 1.5, a relative refractive index difference of 3% and an operating wavelength of $0.82 \mu\text{m}$. Estimate the critical radius of curvature at which large bending losses occur. (06 Marks)
3.
 - a. Draw and explain the cross-sectional view of a typical AlGaAs double heterojunction LED, along with the energy diagram. (08 Marks)
 - b. Sketch and explain the GaAs homojunction injection laser with a Fabry-Perot cavity. (06 Marks)
 - c. A planar LED is fabricated from Gallium Arsenide which has a refractive index of 3.6,
 - i) Calculate the optical power emitted into air as a percentage of the internal optical power for the device when the transmission factor at the crystal-air interface is 0.68.
 - ii) When the optical power generated internally is 50% of the electric power, determine the external power efficiency. (06 Marks)
4.
 - a. With the aid of simple sketches, outline optical fiber coupler types and their functions. (08 Marks)
 - b. Discuss different types of fiber misalignment and the factors which causes the losses due to those misalignment. (06 Marks)
 - c. A single mode fiber has the following parameters:
 - Normalised frequency (V) = 2.40
 - Core refractive index (n_1) = 1.46
 - Core diameter ($2a$) = $8 \mu\text{m}$
 - Numerical aperture (NA) = 0.1
 - Normalised spot size (w) = $3.12 \mu\text{m}$.
 Estimate the total insertion loss of a fiber joint with a lateral misalignment (Y) of $1 \mu\text{m}$ and an angular misalignment (θ) of 1° . (06 Marks)

Optical Fiber Communication Question Papers

Christian Drosten



Optical Fiber Communication Question Papers:

Optical Fiber Communication Question Papers Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Optical Fiber Communication Question Papers**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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