

30/11/2012  
2nd SEM-12 (EATC) (E-31)  
Con. 9147-12.

B.E (EATC) Sem VIII (R)  
Optical Fiber Communication  
(REVISED COURSE) KR-4695

(3 Hours)

[ Total Marks : 100

- N. B. : (1) Question No. 1 is compulsory.  
(2) Attempt any four questions out of remaining six questions.  
(3) Figures to the right indicate full marks.

1. (a) What are the advantages of optical fiber Communication? 20  
(b) Explain Bandwidth distance product.  
(c) What are Linearly Polarized modes ?  
(d) Compare direct band and indirect band semi conductors.
2. (a) Derive the expression for numerical aperture of a step-index fiber. What will 10  
happen to N. A. if Cladding is removed ?  
(b) Compare step index and graded index fiber. 10
3. (a) Starting from Maxwell's equation, derive the wave equation for step index fiber. 10  
(b) Explain the significance of V-number. Derive the expression for number of guided 10  
modes in graded index fiber.
4. (a) What do you understand by intramodal dispersion ? Derive the expression for 10  
material dispersion.  
(b) What are the reasons for signal attenuation in an optical fiber ? 10
5. (a) Give the structure of a surface emitting LED. Compare with an edge 10  
emitting LED.  
(b) Explain Avalanche Photodiode with proper structure and electric field. What is 10  
multiplication factor ?
6. (a) What are splices ? Explain different types of splices. 10  
(b) Explain Double Crucible method of fiber fabrication. 10
7. Write short notes on any two :— 20  
(a) Linearly Polarized modes  
(b) OTDR  
(c) Link Power Budget.

# Optical Fiber Communication Question Papers

**Lynn D. Hutcheson, Stephen C. Mettler**

A red circular graphic with a gradient, appearing as a partial circle on the right side of the page, overlapping the authors' names.

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Incorporates a considerable number of worked out numericals to reinforce the understanding of the concepts Includes many pedagogical features such as chapterwise summary exercises including probable problems and question bank and relevant references to provide a sound knowledge of various processes and systems

**Selected Papers on Fiber Optic Communications** Lynn D. Hutcheson, Stephen C. Mettler, 1993 SPIE Milestones are collections of seminal papers from the world literature covering important discoveries and developments in optics and photonics

1986 Optical Fiber Communication Conference, Technical Digest, 1986      Optical Fiber Communication, 1982      *Journal of Optical Communications*, 1984      *Sixth Topical Meeting on Optical Fiber Communication, 28 February-2 March 1983, New Orleans*, 1983

**Conference on Optical Fiber Communication, 11-13 February, 1985 ; Third International Conference on Optical Fiber Sensors, 13-14 February, 1985, San Diego, California**, 1985      **Selected Papers on Single-mode Optical Fibers** Alexander Brozeit, R. S. Sirohi, 1994 SPIE Milestones are collections of seminal papers from the world literature covering important discoveries and developments in optics and photonics

*1996 Optical Fiber Communication Conference*, 1996      *Coherent Lightwave Communications* Paul S. Henry, Stewart D. Personick, 1990      **Electrical & Electronics Abstracts**, 1997      **Selected Papers on Fiber Optic Local Area Networks** Eric G. Rawson, 1994      Guided Optical Communications, 1975      *Optical Fiber Technology* Detlef Gloge, 1976      Advances in Fiber Optics E. M. Dianov, Society of Photo-optical Instrumentation Engineers. Russian Chapter, 2000      *Japanese Technical Abstracts*, 1987

Optical Fiber for Telecommunication in Russia Vladimir A. Burdin, 2001

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