RAMA UNIVERSITY

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FACULTY OF ENGINEERING & TECHNOLOGY

DCS-503 Computer Networks

Lecture-10

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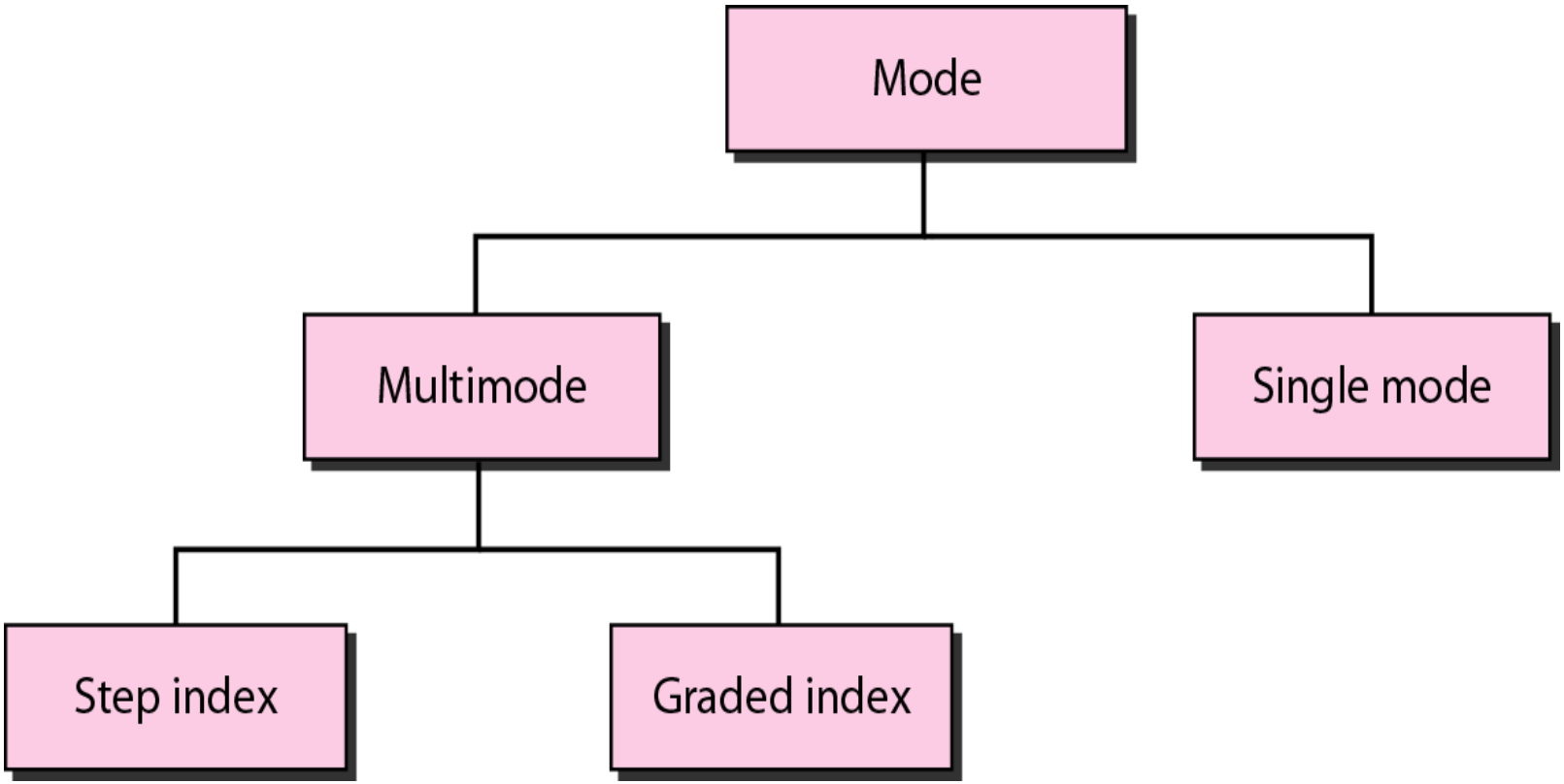
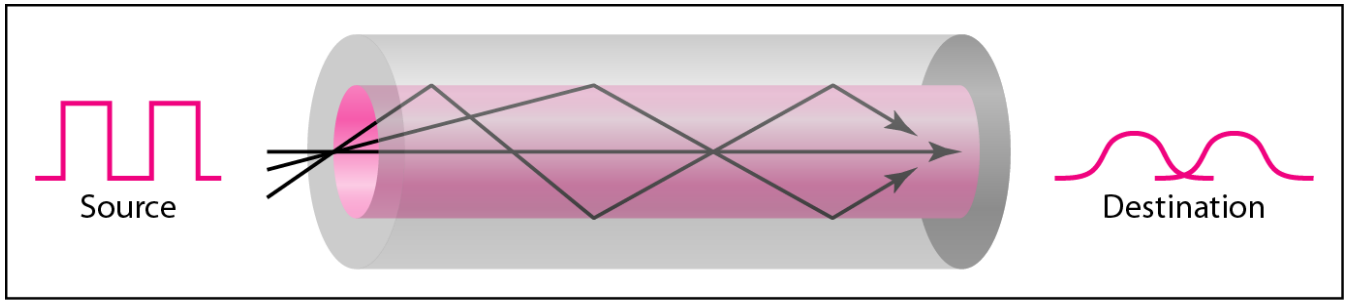
OUTLINE

- PROPAGATION MODES
- MODES
- FIBER TYPES
- FIBER CONSTRUCTION
- FIBER-OPTIC CABLE CONNECTORS

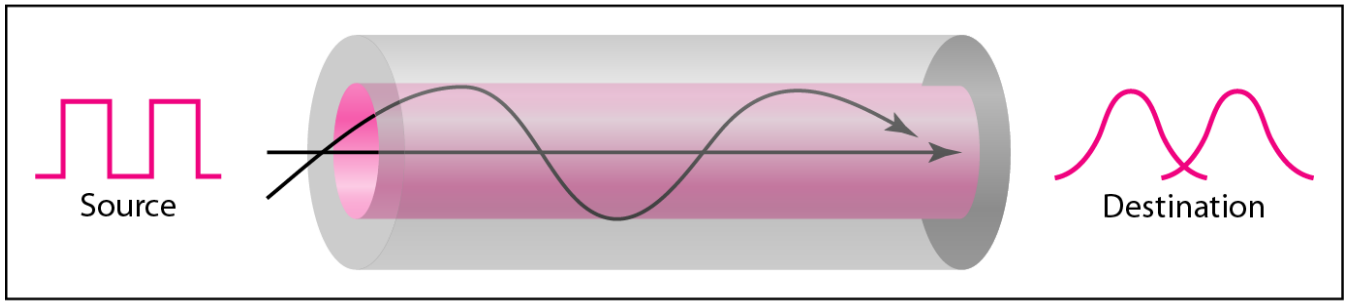
PROPAGATION MODES



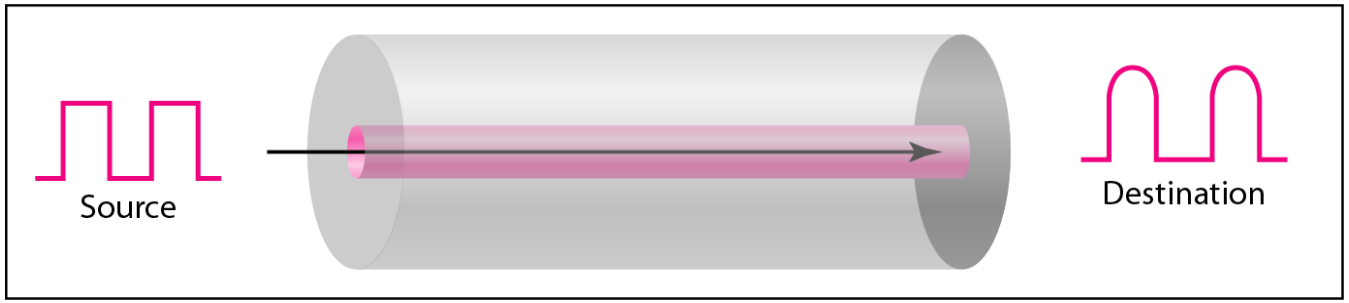
MODES



a. Multimode, step index



b. Multimode, graded index

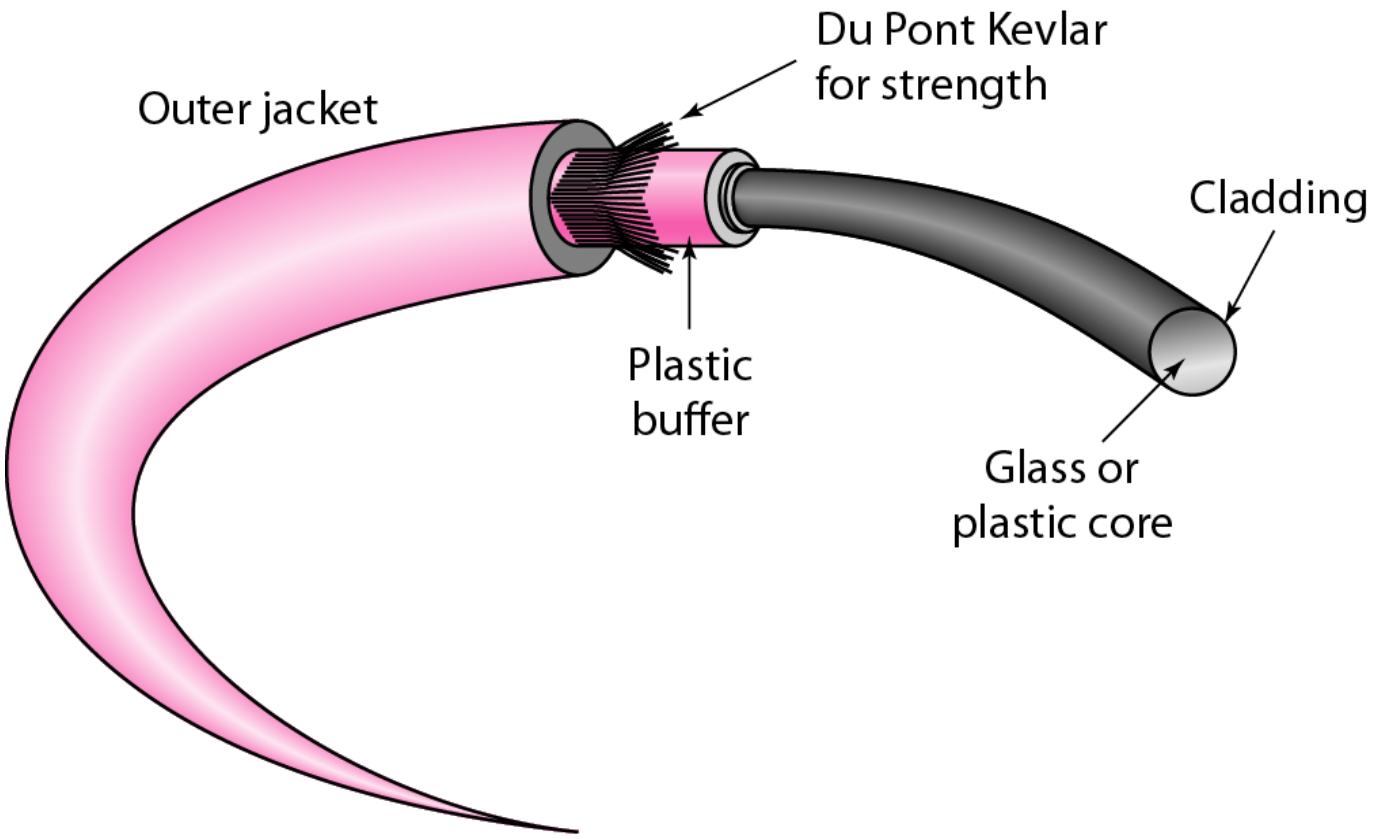


c. Single mode

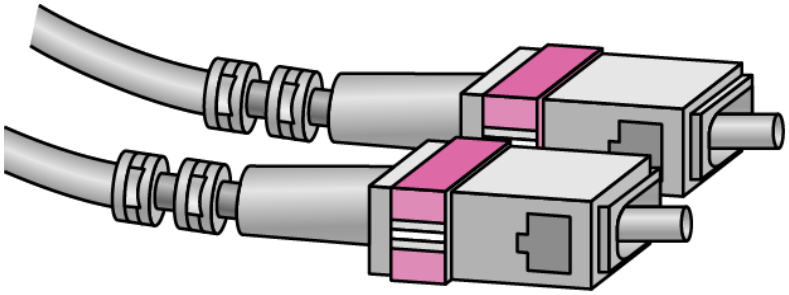
FIBER TYPES

Type	*Core (μm)*	*Cladding (μm)*	*Mode*
50/125	50.0	125	Multimode, graded index
62.5/125	62.5	125	Multimode, graded index
100/125	100.0	125	Multimode, graded index
7/125	7.0	125	Single mode

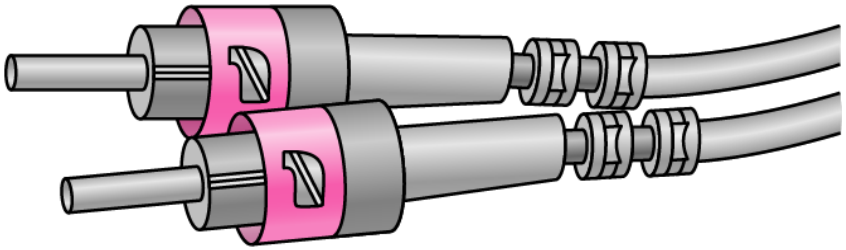
FIBER CONSTRUCTION



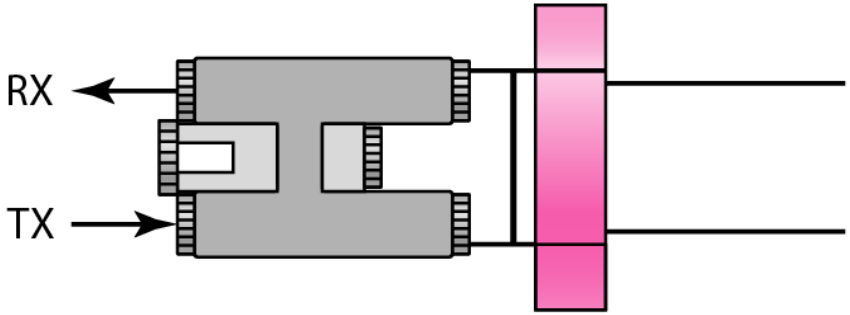
FIBER-OPTIC CABLE CONNECTORS



SC connector



ST connector



MT-RJ connector

Multiple Choice Question

MUTIPLE CHOICE QUESTIONS:

Sr no	Question	Option A	Option B	OptionC	OptionD
1	Transmission data rate is decided by _____	network layer	physical layer	data link layer	transport layer
2	The physical layer is concerned with _____	bit-by-bit delivery	p) process to process delivery	application to application delivery	port to port delivery
3	Bits can be sent over guided and unguided media as analog signal by _____	digital modulation	amplitude modulation	frequency modulation	phase modulation
4	The physical layer provides _____	mechanical specifications of electrical connectors and cables	specification for IR over optical fiber	electrical specification of transmission line signal level	all of the mentioned
5	The physical layer is responsible for _____	line coding	channel coding	modulation	all of the mentioned

REFERENCES

- http://www.engppt.com/2009/12/networking-fourozan-ppt-slides.html