

c-Some fibers have very small diameter core that they can carry only one mode which travels as a straight line at the center of the core. These fibers are single mode fibers.(3)

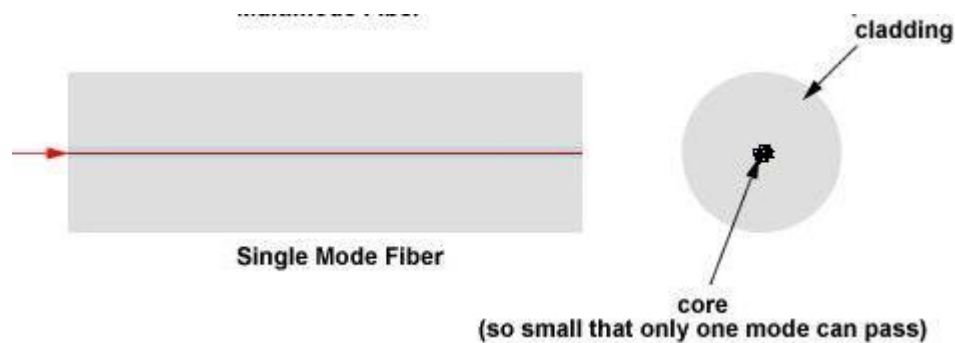


Figure (3)

d-Multilayer step-index

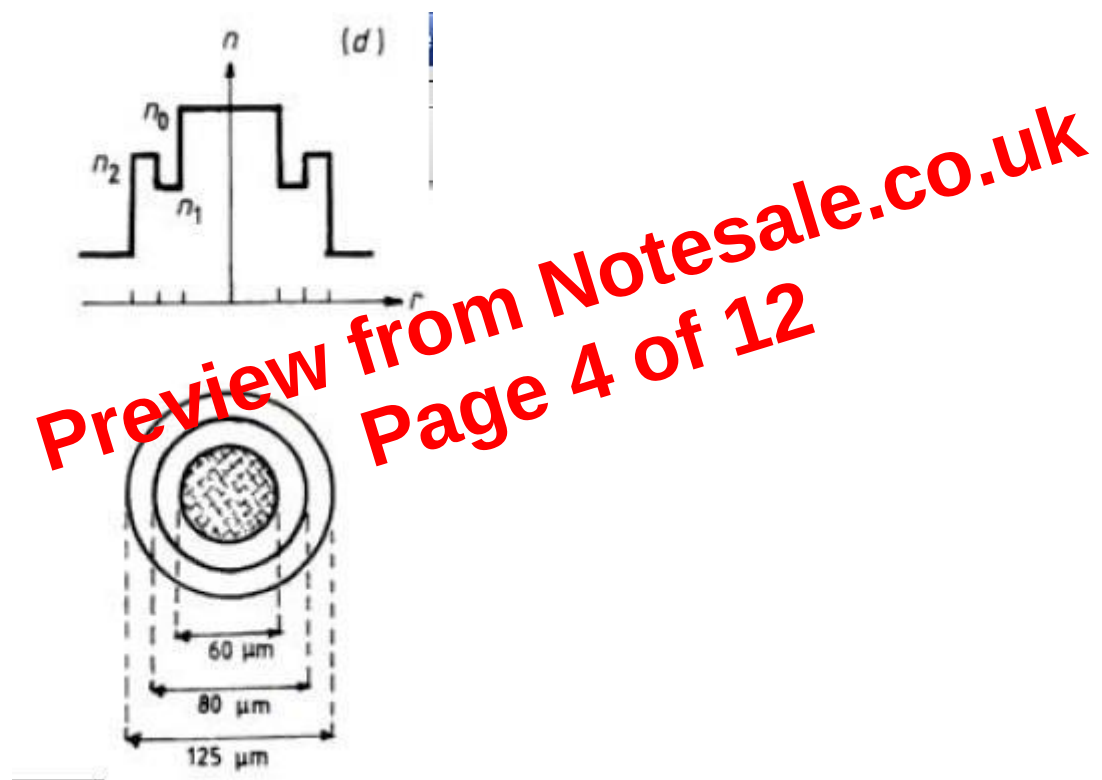


Figure (4)

Graded index:

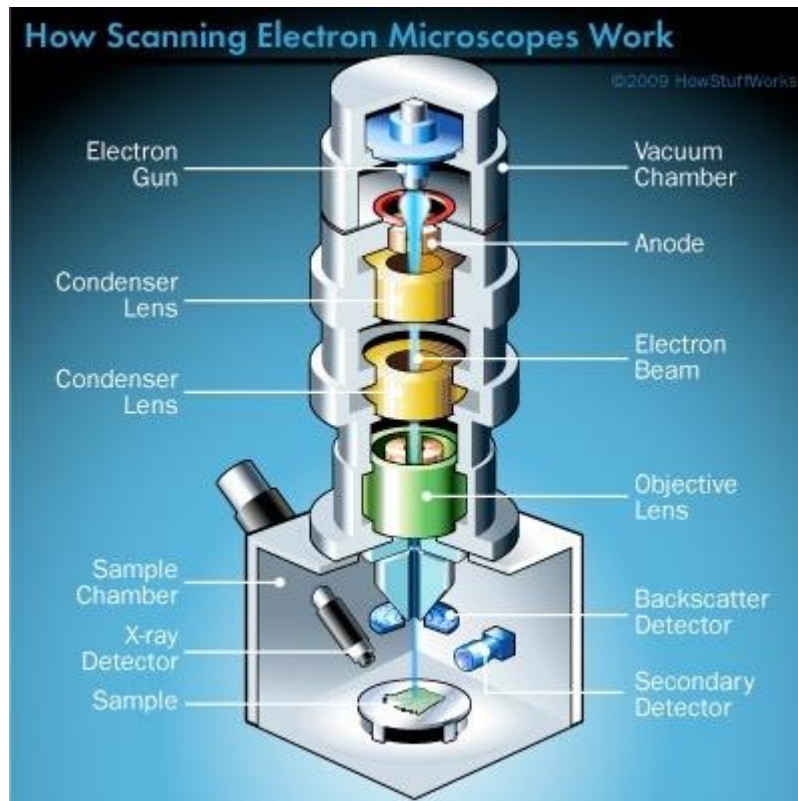


Figure (8)

2-interference microscope:

There are many microscopes were developed using the two beam interference technique (the Mach-Zehnder interferometer , the Nomarski interferometer , Pluta polarizing interference microscope , the Interphako interference microscope and Baker Dyson ,Leitz and Zeiss-Limmik interference microscope .

In this research we talk about Pluta polarized interference microscope