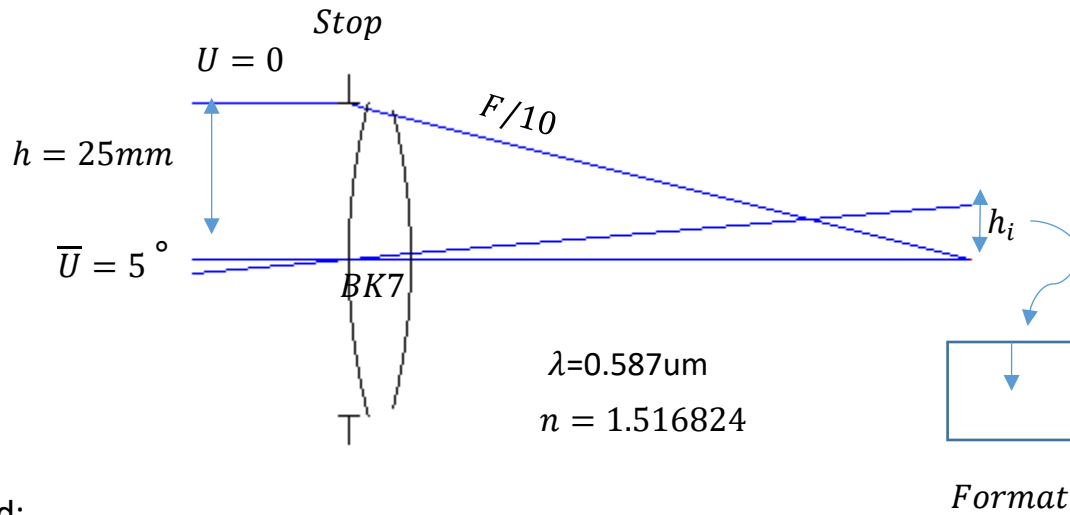


Lesson 1 Homework

Problem 1:

See 1.3 in Geary text. Height of incident marginal ray now 25. Assume a thin lens.

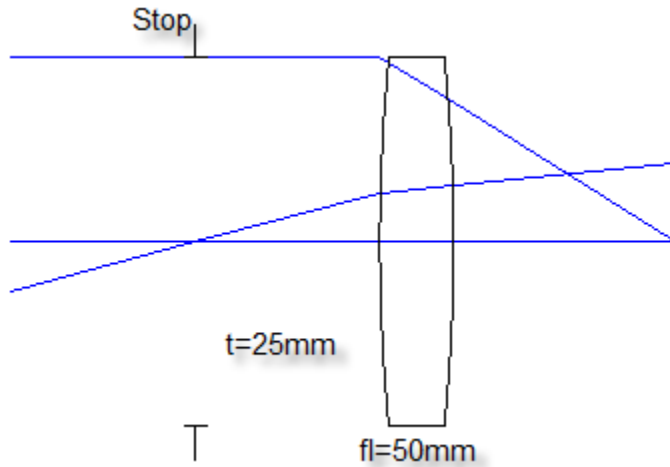


Find:

- the effective focal length
- the power of the lens
- surface curvature for front and back surfaces (assume equiconvex shape)
- radius of curvature for each surface
- format size (assume square)
- Airy disk diameter

Problem 2:

Assume a thin lens with focal length 50mm. The stop, of 50 mm diameter, is located 25mm to the left of the lens.



Use the imaging equation to find:

- Entrance pupil location and size
- Exit pupil location and size
- F/#