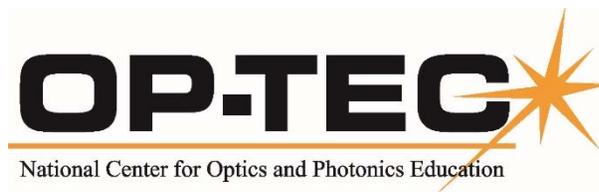


Argon-Ion Lasers and Their Applications

Module 2-7
of
Course 2, *Laser Systems and Applications*
2nd Edition



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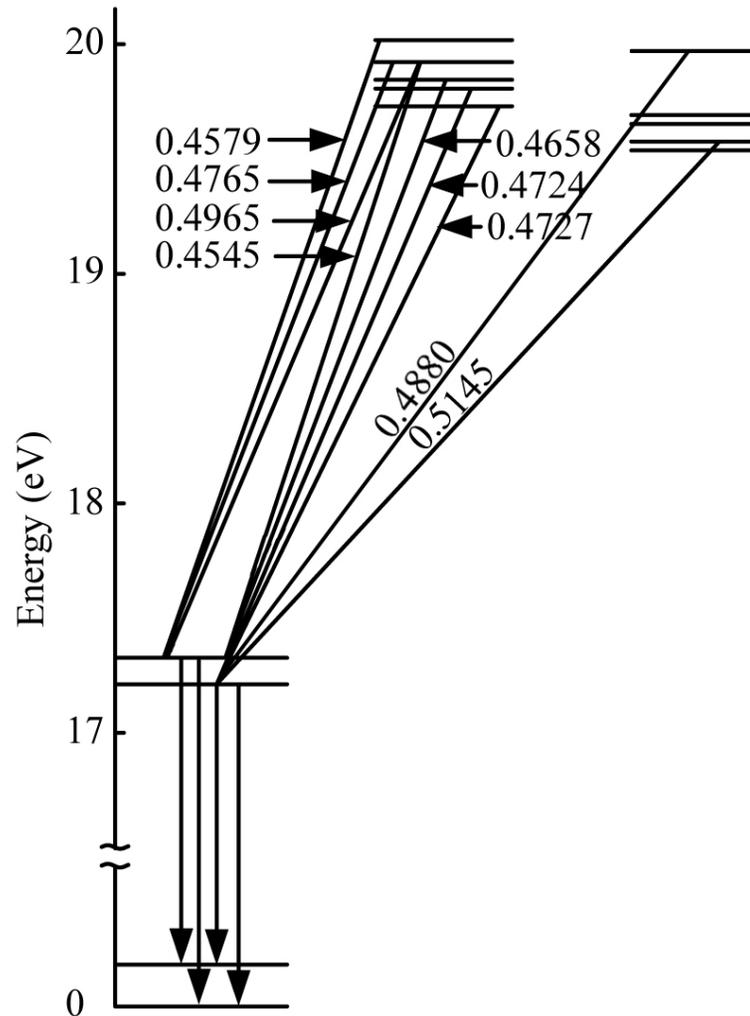


Figure 7-1 *Energy-level diagram of a singly ionized argon-ion (The diagram shows only those energy states and transitions relevant to operation of the argon-ion laser.)*

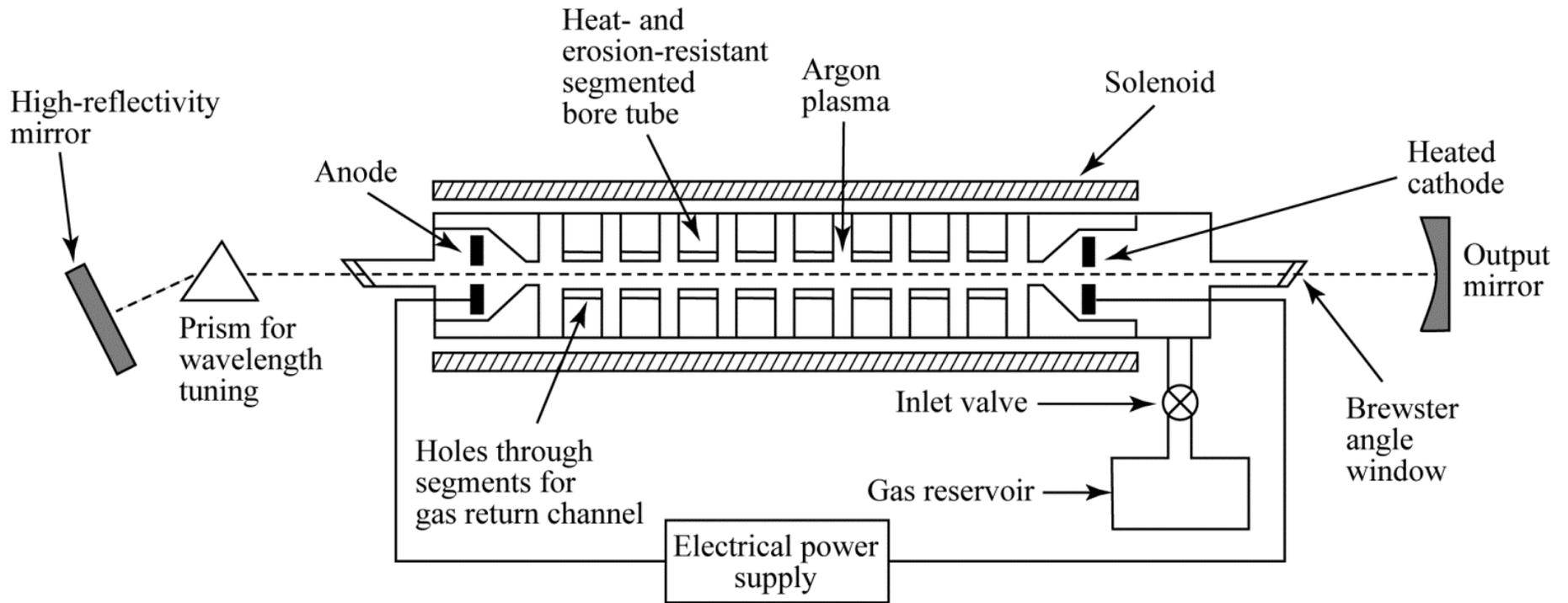


Figure 7-2 *Typical argon-ion laser structure with segmented bore*

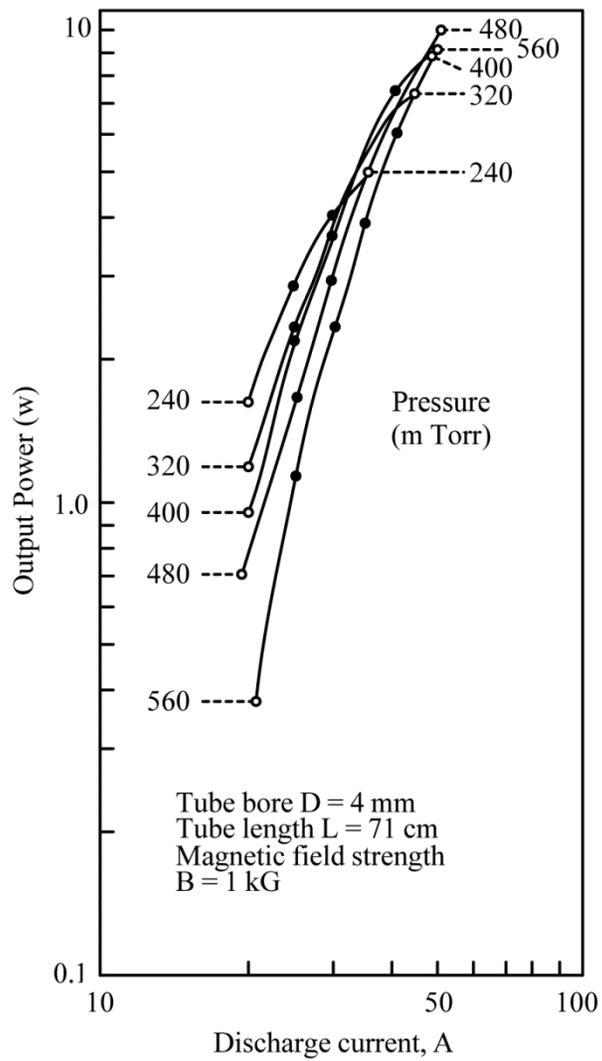


Figure 7-3 *Output power versus current for an argon-ion laser with all lines operating at various operating pressures*

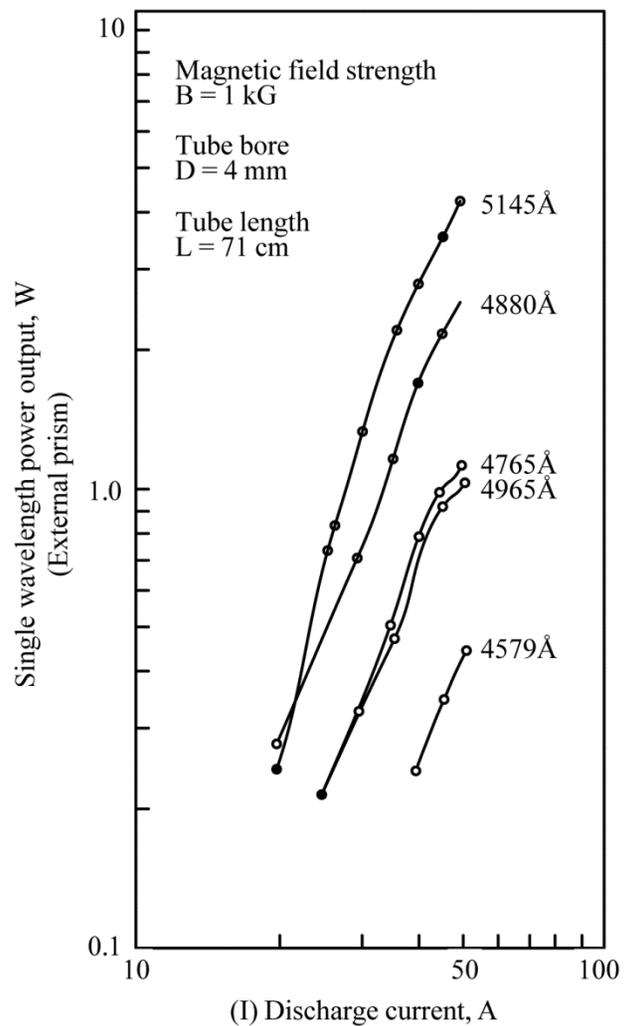


Figure 7-4 *Spectral distribution of the blue-green output lines in the Ar^+ laser*

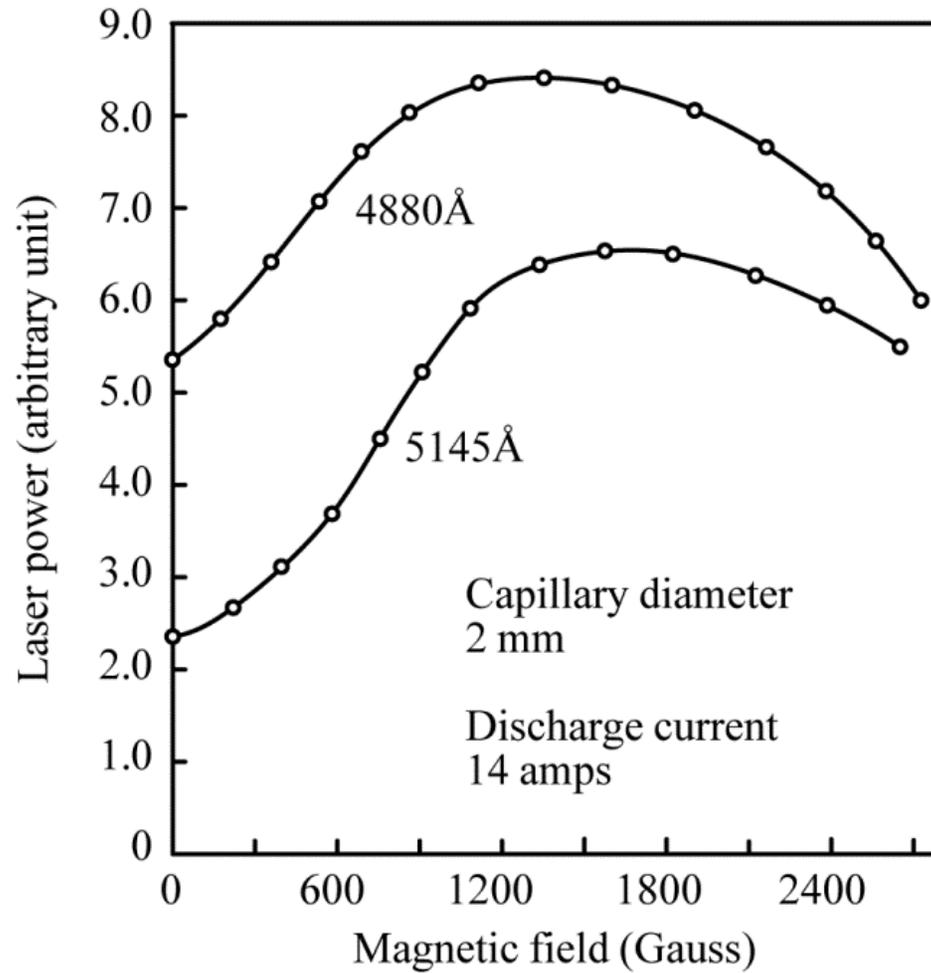


Figure 7-5 *Laser output power in argon-ion laser versus magnetic field strength*

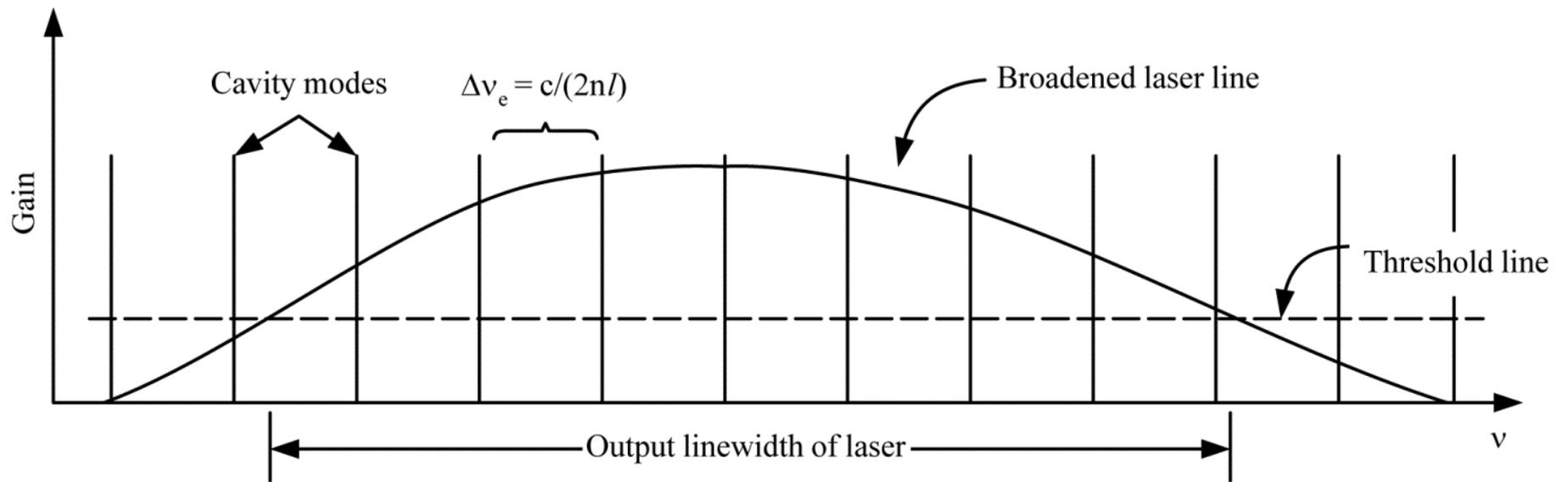


Figure 7-6 *Longitudinal modes in a laser*

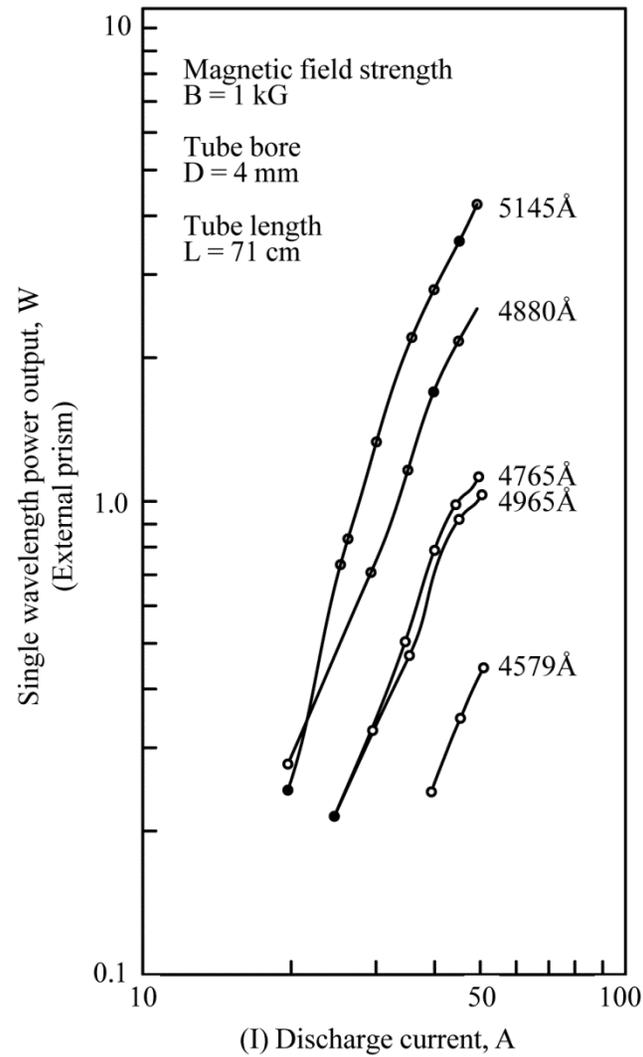


Figure 7-7 *Broadband multilayer coatings for argon-ion laser cavity mirrors*

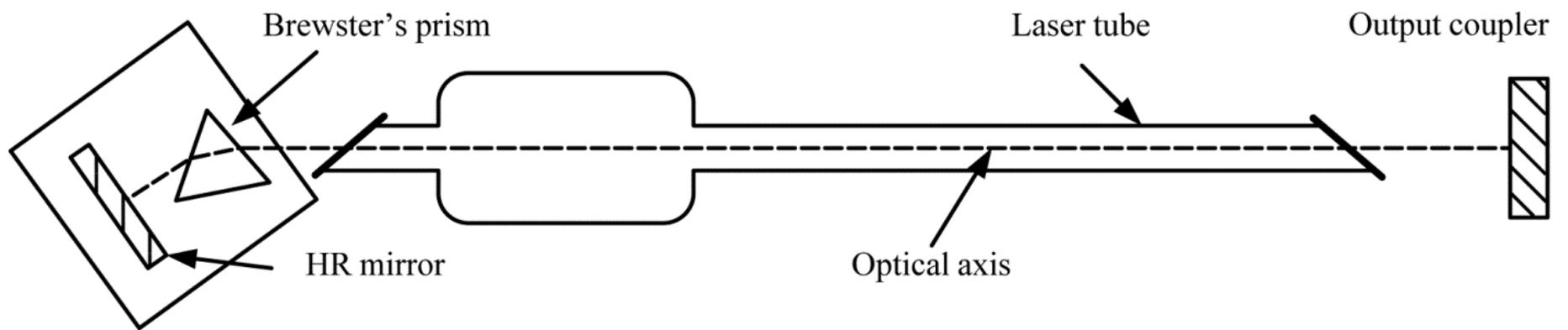


Figure 7-8 *Argon laser with prism wavelength selector*

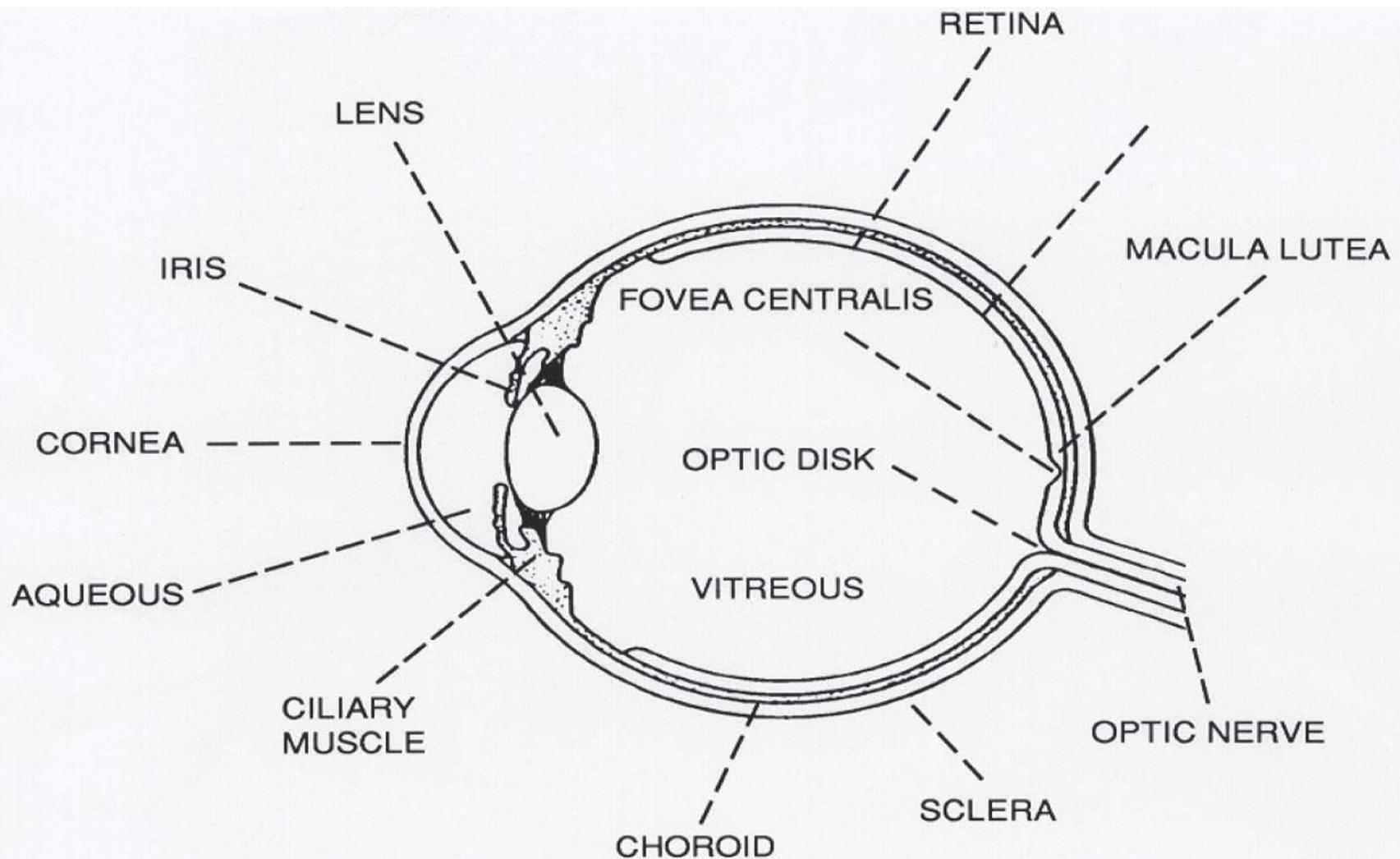


Figure 7-9 *Structure of the human eye*