

Georgi Dobrev, Ivo Temelkov, Asen Pashov. WAVELENGTH METER BASED ON COLOURED GLASS FILTER TRANSMISSION

A simple wavemeter for measuring the wavelength of CW diode laser is presented in this paper. The device is based on colored glass filter transmission and its resolution is demonstrated to be better than 1Å. A group of factors, which have influence on accuracy and reproducibility of test results, are analyzed. The presented results are from testing the wavemeter with CW diode laser and TiAl₂O₃ laser.

Keywords: wavemeter, diode lasers

PACS numbers: 42.60.Jf, 42.60.-v