

Turkish Journal of Physics

Turkish Journal

of

Physics

A Correlation of Thin Lens Approximation to Thick Lens Design by Using Coddington Factors in Lens Design and Manufacturing

Ö. Faruk FARSAKOĞLU


Logistics Command, Technical Management Department,
06110 Gümüşdere Ankara-TURKEY

D. Mehmet ZENGİN

Ankara University, Faculty of Sciences, Department of Physics,
06100 Beşevler Ankara-TURKEY

Hikmet KOCABAŞ

Istanbul Technical University, Faculty of Mechanical Engineering, CAD-CAM Center,
80191 Gümüşsuyu İstanbul-TURKEY

 [Keywords](#)
 [Authors](#)



phys@tubitak.gov.tr

[Scientific Journals Home](#)
[Page](#)

Abstract: The effect of Coddington factors on aberration functions has been analysed using thin lens approximation. Minimizing spherical aberrations of singlet lenses using Coddington factors in lens design depending on lens manufacturing is discussed. Notation of lens test plate pairs used in lens manufacturing is also presented in terms of Coddington shape factors.

Turk. J. Phys., **25**, (2001), 271-282.

Full text: [pdf](#)

Other articles published in the same issue: [Turk. J. Phys., vol.25.iss.3.](#)