





















	ects longitudinal chromatic aberration by combining lens. Two different glasses (v_1 , P_1 and v_2 , P_2) are	20-12	OPTI-502 Optical Do © Copyright 2019
$\delta\phi = \delta\phi_{FC} = \delta\phi_{FC1} + \delta\phi_{FC2}$	ϕ_1, ϕ_2 at d For each lens: $\delta \phi_{FCi} = \frac{\phi_{di}}{v_i} = \frac{\phi_i}{v_i}$ ϕ_1		OPTI-502 Optical Design and Instrumentation I © Copyright 2019 John E. Greivenkamp
Achromat: $\delta \phi_{FC} = \phi_F - \phi_C = 0$ $\frac{\phi_1}{\nu_1} = -\frac{\phi_2}{\nu_2}$ $\phi_2 = -\frac{\nu_2}{\nu_1} \phi_1$ $\phi = \phi_1 + \phi_2 = \phi_1 - \frac{\nu_2}{\nu_1} \phi_1$	$\frac{\phi_1}{\phi} = \frac{v_1}{v_1 - v_2}$ $\phi, \phi_1, \phi_2 \text{ at}$ $\frac{\phi_2}{\phi} = -\frac{v_2}{v_1 - v_2}$	d	College of Optical Sciences































