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Abstract

The polarization angle θ_1 of a polarizer (14) is set, and the reflection intensity S_1 in a cross Nicol state and the reference reflection intensity Ref_1 of a liquid crystal cell (15) are measured. A different polarization angle θ_2 is then set, and the reflection intensity S_2 in a cross Nicol state and the reference reflection intensity Ref_2 of the liquid crystal cell are measured. The ratios S_1/Ref_1 , S_2/Ref_2 of measured intensities and the ratio $S_1 \cdot Ref_2 / S_2 \cdot Ref_1$ is determined in order to cancel the background components of the reference reflection intensities Ref_1 , Ref_2 thus determining the value of cell gap accurately (Fig. 1).



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