



BIREFRINGENCE - AS INDICATOR OF ORDER DEGREE IN
NEMATIC LIQUID CRYSTALS
BIREFRINGENȚA
- CA INDICATOR AL GRADATIEI PRIN CRISTALE NEMATICE
LICHIDE

Dana DOROHAI - "Al.I.Cuza" University Iasi

I. DIACONU - "Gr. T. Popa" University Iasi

I. D. IGNAT - "Ion Ionescu de la Brad" University Iasi

L. DUMITRASCU "Stefan Procopiu" - High School Vaslui

Three methods for birefringence determination are described. Experimental data for poly-(phenyl methacrylic)-ester of cetyloxybenzoic acid (PPMAECOB) in tetrachloromethane (TCM), obtained by the three methods, are compared. The order parameter indicates the percentage of the molecules oriented with their long axis in parallel. Birefringence of PPMAECOB in TCM increases with the polymer side chains ordering increasing.