عنوان مقاله:

Calculation of Stability Limit of Isotropic and Uniaxial Nematic Liquid Crystals with Hard Ellipsoid Molecules

محل انتشار:

هجدهمین همایش شیمی فیزیک ایران (سال: 1394)

تعداد صفحات اصل مقاله: 3

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خلاصه مقاله:

The equilibrium properties of non- isotropic molecular liquids less studied as compared withspherical molecular liquids. In these systems, molecular interactions depend on separationdistance and orientation of molecules. Properties of non- spherical molecular liquid crystalshave been studied by integral equation, computer simulation and density functional theory(DFT) [1- 4] .Allen [5], Cheng and coworkers [6] calculated phase stability of isotropic andnematic oblate ellipsoids using computer simulation.In this work, kerr constant [1], phase stability limit and transition density of I-N of hardprolate ellipsoids are calculated by using DFT and new direct correlation (DCF) [7].

کلمات کلیدی:

لینک ثابت مقاله در پایگاه سیویلیکا:

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