

DYNAMICS OF BIAXIAL NEMATIC LIQUID
CRYSTALS WITH CONFORMATIONAL
DEGREES OF FREEDOM

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S u m m a r y

On the basis of the Hamilton approach, the dynamics of biaxial nematic liquid crystals is considered, and the nonlinear equations of ideal hydrodynamics for such condensed media are deduced. The connection of the disk-like form of molecules and the structure of these equations is studied. Two branches of acoustic oscillations are found, and the character of an anisotropy of both sound velocities is clarified. In both cases, the computer simulation of a wave propagation front is performed.