

962-76-152

Ramprakash Singh* (srai@ju.edu), Department of Mathematics, Ewing Christian College,
211001 Allahabad, U.P., India. *Stability of Two Superposed Homogeneous Fluids Under Uniform
Magnetic Field.*

The instability of two superposed homogeneous fluids is discussed under gravitational force and uniform magnetic field. The perturbation propagation is taken simultaneously along and perpendicular to streaming motion in the horizontal plane $z = 0$. The critical wave number k^* has been found and some special cases of interest are discussed. (Received August 13, 2000)