WAVES AND INSTABILITIES IN AN INCLINED MAGNETIC FIELD

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While surface waves propagating at tangential discontinuities have been studied in great detail, few studies have looked into the nature of waves at contact discontinuities. By introducing magnetic field inclination, the frequency of waves is rendered complex, where the imaginary part describes wave attenuation, due to lateral energy leakage. Thus waves may display attenuation, without the need for damping mechanisms. We also present an investigation into the effect of magnetic field inclination on magnetic Rayleigh-Taylor instabilities at these interfaces.