

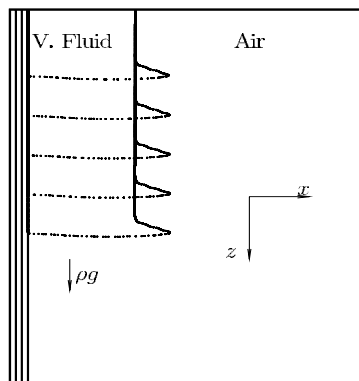
Wetting Effects in Thin Films

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We study wetting effects in thin films of a viscous fluid moving down an inclined solid substrate[1]. By means of a Lattice Boltzmann algorithm[2], we simulate the full hydrodynamic equations of motion of the problem, where wetting properties are introduced via a Cahn approach[3]. We present results concerning the effect of the dynamic contact angle and the capillary number on the advancing fronts[4].



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