

## Viscous Fluid Flow Solutions Chapter4

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*FlexPDE Example: Viscous Flow*

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*Flow of a viscous fluid on an inclined plane*

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One consider a steady flow of layer of incompressible and viscous fluid, of height , on an inclined plane. It is assumed one-dimensional flow : the velocity field is parallel to the axis Ox and will depend only on the variable. At the free surface, the pressure is uniform and is . The density of the fluid, assumed Newtonian, is and its viscosity .

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VISCOUS FLUID FLOW Tasos C. Papanastasiou Georgios C. Georgiou Department of Mathematics and Statistics University of Cyprus Nicosia, Cyprus Andreas N. Alexandrou Department of Mechanical Engineering Worcester Polytechnic Institute Worcester, MA by Boca Raton London New York Washington, D.C. CRC Press

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Chapter 4 Differential Relations for a Fluid Particle 303. Solution: Here we have only the single ' one-dimensional ' convective acceleration: 2 2 (a) o o; du u x V uV Ans dt x L L 2 2Vo x 1 LL 2 2(10) 2 6 10 , 1 400(1 4 ), 6 / 12 6 / 12. o

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This problem examines viscous fluid flow in a 2D channel. FlexPDE solves for the X- and Y- velocities of a fluid, with fixed pressures applied at the ends of the channel. The reynolds number in this problem is approximately 20.

VISCOUS FLUID FLOW

Chapter 4 - Real Fluid Effects ( =0) Potential Flow Theory Drag = 0. Observed experiment (real fluid <<1 but = 0) Drag = 0. In particular the total drag measured on a body is regarded as the sum of two components: the pressure or form drag, and the skin friction or

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viscous drag. Total Drag = Pressure Drag + Skin Friction Drag  
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