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force in potential flow past a body

12 Gravity waves13 Internal waves in an incompressible fluid; 14 Waves in a rotating fluid; Chapter 2: VISCOUS FLUIDS; Publisher Summary; 15 The equations of motion of a viscous fluid; 16 Energy dissipation in an incompressible fluid; 17 Flow in a pipe; 18 Flow between rotating cylinders; 19 The law of similarity; 20 Flow with small Reynolds numbers; 21 The laminar wake; 22 The viscosity of suspensions; 23 Exact solutions of the equations of motion for a viscous fluid; 24 Oscillatory motion in a viscous fluid; 25 Damping of gravity waves; Chapter 3: TURBULENCE; Publisher Summary

41 Stability of flow in the laminar boundary layer42 The logarithmic velocity profile; 43 Turbulent flow in pipes; 44 The turbulent boundary layer; 45 The drag crisis; 46 Flow past streamlined bodies; 47 Induced drag; 48 The lift of a thin wing; Chapter 5: THERMAL CONDUCTION IN FLUIDS; Publisher Summary; 49 The general equation of heat transfer; 50 Thermal conduction in an incompressible fluid; 51 Thermal conduction in an infinite medium; 52 Thermal conduction in a finite medium; 53 The similarity law for heat transfer; 54 Heat transfer in a boundary layer

55 Heating of a body in a moving fluid56 Free convection; 57 Convective instability of a fluid at rest; Chapter 6: DIFFUSION; Publisher Summary; 58 The equations of fluid dynamics for a mixture of fluids; 59 coefficients of mass transfer and thermal diffu; 60 Diffusion of particles suspended in a fluid; Chapter 7: SURFACE PHENOMENA; Publisher Summary; 61 Laplace's formula; 62 Capillary waves; 63 The effect of adsorbed films on the motion of a liquid; Chapter 8: SOUND; Publisher Summary; 64 Sound waves; 65 The energy and momentum of sound waves

66 Reflection and refraction of sound waves