

Buoyancy Induced Flows Transport

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contents introduction general formulation of buoyancy induced flows external vertical thermally induced flows vertical axisymmetric flows other than vertical flows combined mass and thermal transport unsteady external flows effects of variable fluid properties transport in cold pure and saline water mixed convection

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instability and transition in buoyancy induced flows

this chapter focuses on instability and transition in buoyancy induced flows density differences in fluids interacting with the gravitational field produce an immense diversity of buoyancy forces and flow configurations in environment in enclosures and in the processes of technology

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the flow and heat transfer associated with the convective cooling of a heated cylinder moving in a channel with buoyancy and pressure induced flow has been numerically investigated three distinct transport mechanisms arise in this case due to material motion forced flow and buoyancy

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buoyancy induced flows and transport concerns the heat transfer and fluid motions which arise in bodies of fluids it specifically relates to the natural circulation and other effects which result from density differences and gradients in a fluid

region as a result of a body force such as gravity

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instabilities of buoyancy induced flow along vertical

flow induced by buoyancy forces in the stratified ambient fluid is very common in many industrial processes and nature a buoyancy driven boundary layer also known as the buoyancy layer flow will be generated if a plate is heated in a stably stratified fluid

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buoyancy effects can generate unwanted flows during solidification that can affect local transport rates and redistribute defects and impurities adversely affecting the quality of the product this has led to interest in growing pure crystals for the manufacture of electronic chips in outer space

buoyancy induced flows in water under conditions in which

buoyancy induced transport in porous media saturated with pure or saline water at low temperatures international journal of heat and mass transfer vol 23 issue 11 p 1521

buoyancy induced flow and heat transfer through a vertical

the induced flow due solely to buoyancy through a vertical annulus with a uniformly heated inner rod and an adiabatic shell is analysed for radius ratios $r_2/r_1 = 1.5, 2.0$ and 2.4

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