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interfacial fluid mechanics, most notably theories of interfacial instabilities, are covered in standard graduate textbooks on fluid mechanics and therefore received relatively little attention in the present book.

Vladimir S. Ajaev 1 Interfacial Fluid Mechanics

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The origins of interfacial tension are analogous. Interfacial tension is a material property of a fluid-fluid interface whose origins lie in the different energy per area that acts to resist the creation of new interface. Fluids between which no interfacial tension arises are said to be miscible.

18.357 Interfacial Phenomena, Lectures All

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Interfacial Fluid Mechanics: A Mathematical Modeling Approach is an ideal book for applied math or engineering graduate students starting their research work in the field of interfacial fluid mechanics.

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DIFFUSE-INTERFACE METHODS IN FLUID MECHANICS 141 Specifically, in the free-boundary formulation it is assumed that the interface has a surface tension, which on applying a stress balance at the interface gives rise to the interfacial boundary condition $\sigma \delta \mathbf{n} = \mathbf{D} \mathbf{t} \cdot \mathbf{n}$; (1)

DIFFUSE-INTERFACE METHODS IN FLUID MECHANICS

Stabilizing influences are provided by interfacial tension and gravity if the lighter fluid is uppermost. The critical level of magnetization for onset of the instability is derived for a fluid having a non-linear relation between magnetization and magnetic induction.

The interfacial stability of a ferromagnetic fluid

Breyiannis, George Bontozoglou, Vasilis Valougeorgis, Dimitris and Goulas, Apostolos 1993.

Large-amplitude interfacial waves on a linear shear flow in the presence of a current. Journal of Fluid Mechanics, Vol. 249, Issue. -1, p. 499. CrossRef; Google Scholar

Journal of Fluid Mechanics - cambridge.org

Interfacial Fluid Mechanics: A Mathematical Modeling Approach provides an introduction to mathematical models of viscous flow used in rapidly developing fields of microfluidics and microscale heat transfer. The basic physical effects are first introduced in the context of simple configurations and their relative importance in typical microscale applications is discussed.

Interfacial Fluid Mechanics - A Mathematical Modeling

Compared to the macroscopic fluid mechanics, fluids at small scale possess a significantly higher surface to volume ratio. Consequently, interfacial phenomena (e.g., interfacial tension, surface charge, hydrophobic effects) dominate the behavior of various natural or synthetic fluidic systems at small scales.

Interfacial Fluid Mechanics Group - utdallas.edu

Reshaping Capillary Rise. Shaping to Bounce. Leidenfrost effect on textured surfaces. The spontaneous displacement of one fluid by another has been studied for centuries owing to its importance in a variety of applications ranging from oil recovery to paper-based microfluidics.

Fluid Lab: Uncovering Interfacial Dynamics

Interfacial Fluid Mechanics and Pressure Prediction in Chemical Mechanical Polishing Lei Shan , Joseph Levert , Lorne Meade , John Tichy and Steven Danyluk [+ -] Author and Article Information

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