

INTERFACIAL PHENOMENA AND THE MARANGONI EFFECT%0A

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Marangoni (1878), provided a wealth of detailed information on the effects of variations of the potential energy of liquid surfaces and, in particular, flow arising from variations in temperature and surfactant composition. One aspect of this science is seen today to bear on important phenomena

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Preface --Static and Dynamic Three-Phase Contact Lines (L.M. Pismen) --Hydrodynamics of Surface Tension Dominated Flows (D.T. Papageorgiu) --Benard Layers with Heat or Mass Transfer (M.G. Velarde) --Theoretical Aspects of Interfacial Phenomena and Marangoni Effect: Modelling and Stability (R. Kh. Zeytounian) --Hydrodynamics of Stopped Falling Films (V. Ya. Shkadov) --The Effect of Interfacial

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Interfacial Phenomena and Convection remedies this problem by furnishing a self-contained monograph that examines a rich variety of phenomena in which interfaces play a crucial role. From a unified perspective that embraces physical chemistry, fluid mechanics, and applied mathematics, the authors study recent developments related to the Marangoni effect, including patterned convection and

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18 357 Interfacial Phenomena Lectures All

MIT OCW: 18.357 Interfacial Phenomena 2 Prof. John W. M. Bush . 1. Introduction, Notation We consider uid systems dominated by the influence of interfacial tension. The roles of curvature pressure

and Marangoni stress are elucidated in a variety of situations. Particular attention will be given to the dynamics of drops and bubbles, soap films and minimal surfaces, wetting phenomena

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Theoretical Aspects of Interfacial Phenomena and Marangoni

Free Surface Liquid Layer Marangoni Number Interfacial Phenomenon Marangoni Convection These keywords were added by machine and not by the authors. This process is experimental and the keywords may be updated as the learning algorithm improves.

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Marangoni Effect an overview ScienceDirect Topics

A very good demonstration of the Marangoni effect is obtained by dropping a small amount of a surfactant (usually a drop of soap) to a static water reservoir (see Fig. 20.21). The surfactant will locally decrease the surface tension, thus inducing a fluid flow away from the region of lower surface tension.

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Interfacial turbulence Hydrodynamic instability and the

The essence of the explanation is the long-known though much neglected Marangoni effect, wherein movement in an interface is caused by longitudinal variations of interfacial tension. It is proposed that interfacial turbulence is a manifestation of hydrodynamic instability, which is touched off by ever present, small, random fluctuations about the interface.

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