



Rheology of Dispersions: Principles and Applications

By Tharwat F. Tadros

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A dispersion is a system of unmixable phases in which one phase is continuous and at least one is finely distributed. Examples are found in many industrial applications, including emulsions, suspensions, foams, and gels. The control of their flow characteristics - rheology - is essential in their preparation, long-term physical stability and application.

Filling the need for a practical, up-to-date book connecting the stability/instability of the dispersion to its rheological behavior, this title aids in understanding the principles of rheology and the techniques that can be applied.

From the contents:

- * General Introduction
- * Interparticle Interactions and Their Combination
- * Principles of Viscoelastic Behavior
- * Rheology of Suspensions
- * Rheology of Emulsions
- * Rheology of Modifiers, Thickeners, and Gels
- * Use of Rheological Measurements for Assessment and Prediction of the Long-Term Physical Stability of Formulations (Creaming and Sedimentation)

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Rheology of Dispersions: Principles and Applications By Tharwat F. Tadros Bibliography

- Rank: #590621 in Books
- Brand: Brand: Wiley-VCH
- Published on: 2010-11-01
- Original language: English
- Number of items: 1
- Dimensions: 9.72" h x .66" w x 6.99" l, 1.35 pounds
- Binding: Hardcover
- 216 pages

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Editorial Review

Review

"In summary, the book "Rheology of Dispersions" by Tharwat Tadros can be highly recommended for practically oriented researchers working in the field of dispersions." (Materials Views, 16 January 2012)

From the Back Cover

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About the Author

Tharwat F. Tadros was appointed lecturer in Physical Chemistry (1962-1966) at Alexandria University. Between 1966 and 1969, he spent a sabbatical at the Agricultural University of Wageningen and T.N.O. in Delft, The Netherlands. Thereafter he joined I.C.I. and ZENECA until 1994, where he researched various fields of surfactants, emulsions, suspensions, microemulsions, wetting spreading & adhesion and rheology. During that period he was also appointed visiting professor at Imperial College London, Bristol University and Reading University. In 1992, he was elected President of the International Association of Colloid and Interface Science. Since leaving ZENECA, Tharwat F. Tadros has worked as a consultant for various industries and also given several courses in his specialized field. He is the recipient of two medals from the Royal Society of Chemistry in the UK, and has more than 250 scientific papers to his name.

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