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1 1 Emulsion Formation,
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Tharwat F. Tadros 1.1

Introduction Emulsions are a
class of disperse systems
consisting of two immiscible

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Liquids [1–3]. The liquid droplets (the disperse phase) are dispersed in a liquid medium (the continuous phase). Several classes may be distinguished: oil-in-water (O/W),

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Prof. Dr. Tharwat F. Tadros.

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Thermodynamics of Emulsion
Formation and Breakdown.
Interaction Energies
(Forces) between Emulsion
Droplets and Their
Combinations.

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To disperse two immiscible liquids, one needs a third component, namely, the emulsifier. The choice of the emulsifier is crucial in

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the formation of the emulsion and its long-term stability [1–3]. Emulsions may be classified according to the nature of the emulsifier or the structure of the system. This is illustrated in Table 1.1.

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Ganesh Kumar, Abhijit
Kakati, Ethayaraja Mani,
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Stability of nanoparticle
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Pickering emulsion under high pressure and high temperature conditions: comparison with surfactant stabilized oil-in-water emulsion, Journal of Dispersion Science and Technology, 10.1080/01932691

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1. Emulsions: Formation,
stability, industrial

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applications. 2.

Thermodynamics of emulsion
formation and breakdown. 3.

Interaction forces between
emulsion droplets. 4.

Adsorption of surfactants at
the oil/water interface. 5.

Mechanism of emulsification

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and the role of the
emulsifier. 6. Methods of
emulsification

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Emulsion Stability The

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process by which an emulsion coalesces (completely breaks i.e., the system separates into bulk oil and water phases), is generally considered to be governed by four different droplet loss mechanisms: Brownian

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locculation, creaming, sedimentation locculation, and disproportionation, shown schematically in Figure 1. The first three are the primary methods by which emulsions are destabilized, though all

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*Emulsion Stability and
Testing*

1.1 Emulsion formation and stability When the immiscible phases of an emulsion are mixed, they generally separate, as this

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is the most thermodynamically stable state. Thus, in order to mix the liquids, a mechanical force is required to combine the two phases into an emulsion. Often a two-step process, emulsion

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*Introduction to Emulsion
Technology, Emulsifiers and
Stability*

Formation and stability of emulsions is one of the important topics in the field of colloids and

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interfacial science.

Surfactants and colloidal particles are often used to stabilize emulsions.

Surfactants are amphiphilic molecules; they minimize the energy required for the emulsion formation by

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reducing oil-water
interfacial tension.

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Abstract. This review
describes the principles of

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formation and stability of
nano-emulsions. It starts
with an introduction
highlighting the main
advantages of nano-emulsions
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personal care and cosmetic
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describes the main problems with lack of progress on nano-emulsions.

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1.1 Emulsion Formation,
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Tharwat F. Tadros 1.1

Introduction Emulsions are a class of disperse systems consisting of two immiscible liquids [1–3]. The liquid droplets (the disperse

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phase) are dispersed in a liquid medium (the continuous phase).

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Definition Emulsion

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formulation is a process, in which one or several soft-matter phases are dispersed into one or more of such phases. The basic energy requirement of the procedure is to overcome the increased surface free energy from the

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expansion of the interface.

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Oil-in-water emulsion
interface This molecular
arrangement promotes
emulsion formation and

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Stability in two ways.

First, the internal phase droplets, because they are surrounded by the electrically charged hydrophilic ends of the emulsifier molecules, are inhibited from merging to

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form larger droplets.
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*Emulsion stability basics |
Processing Magazine*

The stability of Pickering emulsions can also be enhanced by the formation of a three-dimensional

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viscoelastic network of colloidal particles in the continuous phase. This stabilization mechanism relies on their being a sufficiently high concentration of non-adsorbed protein particles

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in the continuous phase, as well as appropriately attractive force acting between them.

Protein-stabilized Pickering emulsions: Formation ...

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Figure 1.1 Schematic representation of the various breakdown processes in emulsions. - "1 Emulsion Formation, Stability, and Rheology"

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*Figure 1.1 from 1 Emulsion
Formation, Stability, and
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The book explains how to predict emulsion stability and determine droplet sizes in a variety of emulsion systems. It discusses

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Spontaneous emulsification and the formation of "nanoemulsions" as well as droplet-droplet interactions in different electrical fields (electrocoalescence), and the formulation, composition, and preparation

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variables that contribute to the inversion in emulsion systems.

The importance of emulsification techniques,

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their use in the production of nanoparticles for biomedical applications as well as application of rheological techniques for studying the interaction between the emulsion droplets is gathered in this

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investigation. It also considers the fundamental approach in areas such as controlled release, drug delivery and various applications of nanotechnology.

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Emulsions provides a general introduction, the industrial role of emulsifiers and addresses different problems such as creaming/sedimentation, flocculation, Ostwald ripening, coalescence and

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phase inversion.

Thermodynamics, adsorption and interaction forces between emulsion droplets are thoroughly explained. Supplemented by many figures and tables, it helps to characterize and select the

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right emulsifier for various industrial applications.

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emulsions. The book presents fundamental concepts and processes in emulsified systems, such as flocculation, coalescence, stability, precipitation, deposition, and the evolution of droplet size

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Classification based on the nature of the emulsifier.

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Classification based on the structure of the system.
General instability problems with emulsions :
creaming/sedimentation, flocculation, Ostwald ripening, coalescence and phase inversion. Importance

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entropy and non-spontaneous formation of emulsions. Breakdown of the emulsion by flocculation and coalescence in the absence of an emulsifier. Role of the emulsifier in preventing flocculation and coalescence

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by creating an energy barrier resulting from the repulsive energies between the droplets. Chapter 3 Interaction Forces between Emulsion Droplets Van der Waals attraction and its dependence on droplet size,

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Hamaker constant and separation distance between the droplets. Electrostatic repulsion resulting from the presence of electrical double layers and its dependence on surface (or zeta) potential and

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electrolyte concentration and valency. Combination of the van der Waals attraction with double layer repulsion and the theory of colloid stability. Steric repulsion resulting from the presence of adsorbed non-ionic

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Combination of van der Waals attraction with steric repulsion and the theory of steric stabilisation.

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analysis of surfactant
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Calculation of the amount of
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area per surfactant molecule
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Description of the factors
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during emulsification.
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the Marangoni effect in
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emulsifier selection. The
cohesive energy ratio method
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effect of gravity, droplet size and density difference between the oil and continuous phase.

Calculation of the rate of creaming/sedimentation in dilute emulsions. Influence of increase of the volume

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Reduction of

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Balance of the density of
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addition of 'thickeners'.
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dependence on electrolyte concentration and valency.

Definition of the critical coagulation concentration and its dependence on electrolyte valency.

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nanoemulsions and their application in different fields and products. As the last decade has seen a major shift from conventional emulsification processes towards nanoemulsions that both increase the efficiency

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and stability of emulsions
and improve targeted drug
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required for silver halide photographic materials. In 1935, Dr. E. I. Birr introduced the concept of the stabilization of photographic emulsions for the first time by inventing a most effective stabilizer,

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4-oxo-6-methyl-
1,3,3a,7-tetraazaindene

(TAl). Dr. Birr's monograph
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concept and technologies of stabilization of photographic silver halide materials have been expanded so extensively that many photographic scientists and engineers eagerly want a reliable, new reference book on the

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Stabilization of

photographic emulsions. Dr.

Gunther Fischer is one of

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engineers in the field of

the stabilization of

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of the Photo Film Company
Agfa Wolfen formerly headed
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