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**Interfaces by Gerald  
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The book begins with a review of the relevant aspects of the thermodynamics of bulk systems, followed by a description of the thermodynamic variables for surfaces and interfaces.

Important surface phenomena are detailed, including wetting, crystalline systems (including grain boundaries),

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interfaces between  
different phases,  
curved interfaces  
(capillarity), adsorption  
phenomena and  
adhesion of surface  
layers.

## **Thermodynamics of Surfaces and Interfaces: Concepts in ...**

Thermodynamics of  
Interfaces Omid Moradi  
Shahre-Qods Branch,  
Islamic Azad  
University, Iran 1.

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Introduction

Thermodynamics is the branch of science that is concerned with the principles of energy transformation in macroscopic systems. Macroscopic properties of matter arise from the behavior of a very large number of molecules.

## **Thermodynamics of Interfaces**

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...  
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- by Gerald H. Meier  
July 2014

**Introduction to  
surface quantities  
(Chapter 2 ...**

Thermodynamics of  
Surfaces • Surface  
atoms are very  
different from atoms in  
the bulk. • The fewer

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neighbors of the surface cause it to have a very different and anisotropic chemical environment compared with the bulk. • The

thermodynamics of the surface is most likely to be quite different from the thermodynamic properties of the bulk.

## **728-Thermodynamic s of Surfaces**

Many important aspects of surface

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properties can be understood from the point of view of macroscopic thermodynamics - the surface under equilibrium conditions (e.g., faceting, wetting, island growth) Lecture 1 2 1.1 Surface Thermodynamic Functions Thermodynamics (Gibbs): In equilibrium, a one-component system is

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**Lecture 1**

**Thermodynamics of  
Surfaces;  
Equilibrium Crystal**

**...**

A study of the physics of single surfaces or interfaces begins with the characterization of the shape of the interface. The chapter reviews classical statistical mechanics, includes a description of fluctuations about equilibrium and of binary mixtures.



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## **Statistical Thermodynamics Of Surfaces, Interfaces, And ...**

Understanding the structural and thermodynamic properties of surfaces, interfaces, and membranes is important for both fundamental and practical reasons. Important applications include coatings, dispersants,

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encapsulating agents,  
and biological  
materials.

## Concepts In Inorganic Statistical Thermodynamics Of Surfaces, Interfaces, And ...

Thermodynamics of  
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What is  
thermodynamics  
dealing with?

Thermodynamics is the  
branch of science that  
is concerned with the  
principles of energy

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transformation in  
macroscopic system.  
Macroscopic properties  
of matter arise from  
the behavior of a very  
large number of  
molecules.

## **Thermodynamics of Surfaces and Interfaces**

An interface  
constitutes the  
separation surface  
between two phases. A  
phase constitutes a  
homogeneous part of a

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thermodynamic system, i.e., the part of the universe that is under investigation.

The system has always to be defined by the investigator before she/he starts to perform some studies.

## **Surfaces and Basics From Surface Science, Thermodynamics ...**

Description :  
Understanding the  
structural and

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thermodynamic properties of surfaces, interfaces, and membranes is important for both fundamental and practical reasons. Important applications include coatings, dispersants, encapsulating agents, and biological materials.

## **Statistical Thermodynamics Of Surfaces Interfaces**

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Unanticipated nanostructures, characterized by the presence of phases at interfaces and surfaces which are unstable as bulk phases, can be thermodynamically stabilized due to the dominance of energy contributions of interfaces and surfaces in the total Gibbs energy of the system.

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**reactions and phase  
transformations at**

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rigorous discussion of  
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features case studies  
to illustrate real-world  
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the reader's

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understanding of  
important concepts.

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literature by delivering  
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overwhelming amount  
of mathematics.

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The physico-chemical aspects of these processes, such as the structure, dynamics and thermodynamics of adsorption and solvation processes at aqueous interfaces, are also discussed.

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**at aqueous  
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Surface tension is defined as the intensity of the molecular attraction per unit length along any line in the surface of the fluid in contact with some external interface, or thermodynamically, it can be understood to be the change in Helmholtz free energy per unit area change

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as the droplet forms  
(or spreads out) over a  
surface.

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