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of Adsorption.  
Introduction to Surface  
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Adsorption processes  
taking place on the cell  
membranes promote  
many vital chemical  
reactions and also

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cause changes in surface tension and cell consistency. 4. Drugs and poisons which are adsorbed on cell surfaces exert their effects from that location. Selective adsorption may be related to specific action.

### **Adsorption: Characteristics, Principles and Importance**

Adsorption is an exothermic process

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and enthalpy change is always negative. When adsorbate molecules are adsorbed on the surface, freedom of movement of molecules become restricted and this results in decrease in entropy. Adsorption is a spontaneous process at constant pressure and temperature, thus Gibb's free energy is also decreased.

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**Definition, Causes,  
Examples, Chemistry  
Study ...**

Chapter 9 Adsorption

9.1 Introduction

Adsorption: (i) the principle ways in which high-energy interfaces lower the overall energy of a system. (ii)

A complex process which is different to be described precisely by ...  $\Rightarrow$  leads to chemical reaction between two chemisorbed species.

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**Chapter 9**  
**Adsorption On Solid**

Surfaces  
Adsorption and  
desorption. Wolfgang  
Ranke. Department of  
Inorganic Chemistry.  
Fritz-Haber-Institut der  
MPG. Faradayweg 4-6,  
DE 14195 Berlin.  
Literature: R.I. Masel,  
Principles of adsorption  
and reaction on solid  
surfaces, Wiley, New  
York(1996). K.  
Christmann, Surface  
physical chemistry,  
Steinkopff, Darmstadt

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(1991).  
Reaction On Solid

**Modern Methods in  
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quantitative treatment of the application of principles derived from the fields of thermodynamics and reaction rate theory to the investigation of gas adsorption and reaction on solid surfaces.

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solution generally  
follows the same  
principles as laid down  
for adsorption of gases

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by solids and is subject to the same factors. Thus, Some adsorbents specifically adsorb certain solutes more effectively than others. An increase of temperature decreases the extent of adsorption.

**CHAPTER 3**  
**PRINCIPLES OF**  
**ADSORPTION -**  
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Surfaces was also designed to provide readers an opportunity to quickly familiarize themselves with all of the important quantitative surface modeling techniques now in use.

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Three possible reaction modes are explored for HCHO oxidation from

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different initial co-adsorption configuration of HCHO and O<sub>2</sub>. In the co-adsorption mode-I (IS1 of subfigure with black border in Fig. 5 ), HCHO stands on surface Co by carbonyl carbon and sole oxygen of O<sub>2</sub> bridges at two Ce atoms near oxygen vacancy.

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