

CORROSION AND ITS CONTROL























Learning Objective:

To understand about the Corrosion, types & Various control techniques.









Gradual degradation / destruction of metals / alloys due to chemical or electrochemical reaction with its environment.







? It Occurs

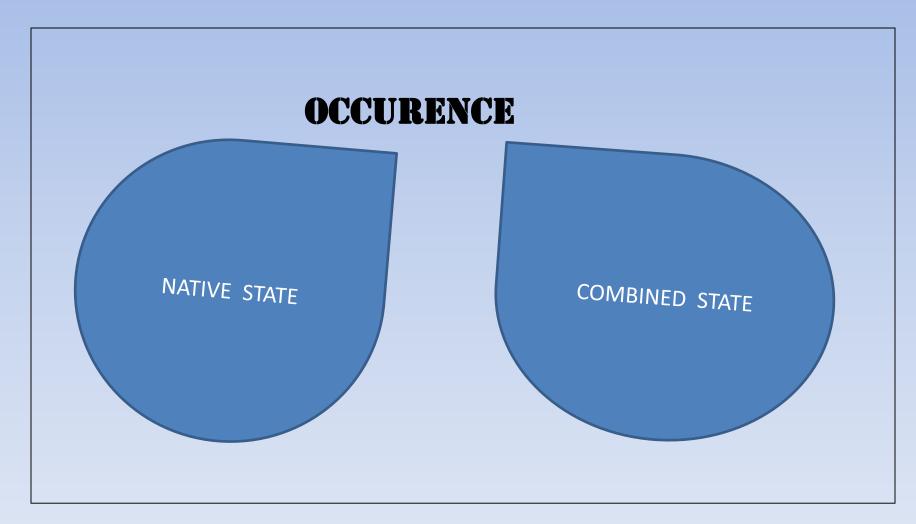






OCCURENCE









OBTAINING METALS

The metals we use are obtained from rocks in the Earth's crust.

Most metals are too reactive to exist in a pure uncombined form in the Earth's crust. Metals are found as in rocks metal compounds. The usual metal compounds found in rocks are **OXIDES**, **SULPHIDES** and **CARBONATES**.

NATIVE METALS

A few metals are found uncombined, as they are very unreactive. Metals, which are found uncombined are called **NATIVE METALS**.

The native metals are:



Gold (Au)



Platinum (Pt)



Silver (Ag)



Copper (Cu)





Illustration of corrosion

Ore hermodynamical ly stable

Pure metal Thermodyna mically un stable

Corroded metal

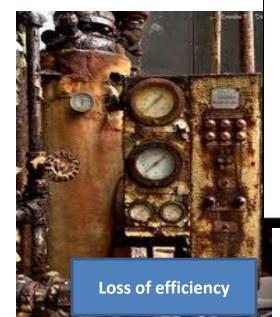
More stable than pure metal

Metallurgy

Environment

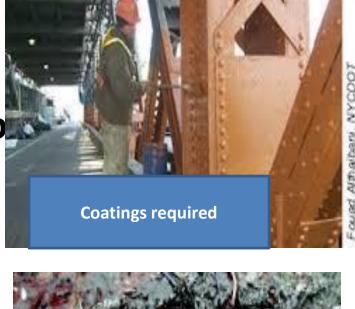














Equipment replaced

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