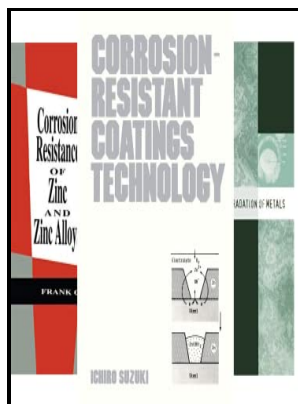


# Fundamentals of corrosion

## AIChe - Corrosion Basics



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### Corrosion Basics

All other metals, to include iron-the metal most commonly used-are processed from minerals or ores into metals which are inherently unstable in their environments.

### Corrosion Basics

Most often caused by misapplying materials in corrosive environments, general corrosion often can be tolerated because the effect of metal loss is relatively easy to assess and allowances can be made in the initial design. The oxidation corrosion of the copper cathode may completely stop due to the electrical connection to the zinc anode.

### Corrosion: Fundamentals and Experimental Methods

Â Daily Schedule Â to view the daily schedule of the 2021 course offering. Select a topic and fill in the contact form. Electrochemical Cells  
Oxidation and Reduction: Metals are elements that tend to lose electrons when they are involved in chemical reactions, and nonmetals are those elements that tend to gain electrons.

### Corrosion Engineering

The reaction at the zinc anode remains the same:  $Zn \rightarrow Zn^{2+} + 2e^-$  The reaction rate increases due to the fact that the surface area of the clean uncorroding copper surface can now support a reduction reaction at a high rate. It is recognized by a roughening of the surface and usually by the presence of corrosion products.

### Corrosion Engineering

It contains general information on what corrosion is, factors to consider, common forms of corrosion and the importance of corrosion prevention. Degradation implies deterioration of physical properties of the material. The anode corrodes and the cathode does not.

## Related Books

- [Theologie der Freiheit](#)
- [Una década de prevenir y combatir la corrupción](#)
- [History of the four Georges and of William IV.](#)
- [Minou](#)
- [Stories of science and invention](#)