

ELECTROCHEMISTRY AND CORROSION SCIENCE





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Electrochemistry is the branch of physical chemistry that studies the relationship between electricity, as a measurable and quantitative phenomenon, and identifiable chemical change, with either electricity considered an outcome of a particular chemical change or vice versa. These reactions involve electric charges moving between electrodes and an electrolyte (or ionic species in a solution).

### **Electrochemistry - Wikipedia**

The steel rebar inside reinforce concrete structures is susceptible to corrosion when permeation of chloride from deicing salts or seawater results in the chloride content at the surface of the steel exceeding a chloride threshold level (CTL).

### **Chloride threshold level for corrosion of steel in**

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A corrosion inhibitor is a chemical compound that, when added to a liquid or gas, decreases the corrosion rate of a material, typically a metal or an alloy. The effectiveness of a corrosion inhibitor depends on fluid composition, quantity of water, and flow regime. A common mechanism for inhibiting corrosion involves formation of a coating, often a passivation layer, which prevents access of ...

### **Corrosion inhibitor - Wikipedia**

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### **Journal of Colloid Science and Biotechnology - aspbs.com**

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20 The Electrochemical Society Interface • Summer 2004 To encompass such a wide dynamic range, a logarithmic scale was established, defining the pH of a solution as  $\text{pH} = -\log a(\text{H}_3\text{O}^+)$  (5) The negative sign assures that pH of most solutions, except