Relates

Electroplating

Electrochemistry

Batteries

Electrical Energy

Chemical Energy

Used in Used in

Interconverted in

Nonspontaneous

Spontaneous

Electrolytic Cells

Galvanic (Voltaic) Cells

∆G = positive

E = negative

∆G = negative

E = positive

Producing Requiring

Electric Current

Standard Cell

Potential, E◦

Oxidation Reduction

Related to:

1. Gibbs Free Energy, ∆G◦

2. Equilibrium Constant, K

Cathode

Anode

Calculated from: Standard Reduction Potential Table

Used in the Nerst Equation