

# Thermodynamics for Chemical Engineers

## Laws of Thermodynamics

### 1st Law

Energy cannot be created or destroyed

### 2nd Law

Entropy of an isolated system always increases

### 3rd Law

Entropy of a perfect crystal is zero at absolute zero

### 0th Law

If two systems are each in thermal equilibrium with a third system, they are in equilibrium with each other

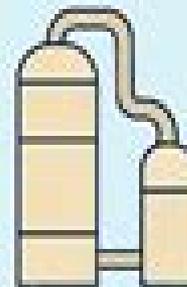
## Applications



Power Generation



Refrigeration



Separation Processes



Chemical Reactions

# Thermodynamics Of Chemical Processes

**SA Adler**



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