NPTEL Video Course - Civil Engineering - NOC:Environmental Engineering-Chemical Processes

Subject Co-ordinator - Prof. Bhanu Prakash Vellanki

Co-ordinating Institute - IIT - Roorkee

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

Lecture 30 - Acidity and its Applications
Lecture 31 - Alkalinity and Acidity
Lecture 32 - Mixing of Two Solutions and Conservative Quantities - I
Lecture 33 - Mixing of Two Solutions and Conservative Quantities - II
Lecture 34 - Carbonate and Non-Carbonate Alkalinity
Lecture 35 - Anaerobic Digester
Lecture 36 - Aqueous Complexes
Lecture 37 - Aqueous Complexes
Lecture 38 - Aqueous Complexes of Aluminium (Al)
Lecture 39 - Aqueous Complexes of Mercury (Hg)
Lecture 40 - Precipitation and Dissolution
Lecture 41 - Applications of Precipitation and Dissolution
Lecture 42 - Different Stages in Precipitation, Equilibrium of Precipitation - I
Lecture 43 - Equilibrium of Precipitation - II
Lecture 44 - Examples Related to Equilibrium of Precipitation
Lecture 45 - Other Examples of Equilibrium of Precipitation
Lecture 46 - Solubility and Competitive Precipitation
Lecture 47 - Predominance Area Diagram and Introduction to Redox Processes
Lecture 48 - Redox Reactions and its Applications
Lecture 49 - Balancing of Redox and Development of Half Reaction
Lecture 50 - Kinetics of Redox Processes
Lecture 51 - Equilibrium of Redox - I
Lecture 52 - Equilibrium of Redox - II and Reaction Feasibility
Lecture 53 - Reaction Feasibility Based on Pe - I
Lecture 54 - Reaction Feasibility Based on Pe - II
Lecture 55 - Effect of Complexation on Redox
Lecture 56 - Effect of Complexation and Solid Phase on Redox
Lecture 57 - Reaction Feasibility based on Eh
Lecture 58 - Introduction to Electrochemical cell (Ecell)
Lecture 59 - Applications of Ecell
Lecture 60 - logC-Pe and pH-Pe Diagram