NPTEL Video Course - Chemical Engineering - NOC:Environmental Quality Monitoring and Analysis

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Co-ordinating Institute - IIT - Madras

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

Lecture 30 - Monitoring methods for Air - Vapor - Part 1
Lecture 31 - Monitoring methods for Air - Vapor - Part 2
Lecture 32 - Monitoring methods for Air - Vapor - Part 3
Lecture 33 - Monitoring and Measurement of Microorganisms
Lecture 34 - Transport of Pollutants - Introduction
Lecture 35 - Transport of Pollutants - Box Models in Water
Lecture 36 - Transport of Pollutants - Box Models in Air
Lecture 37 - Transport of Pollutants - Dispersion
Lecture 38 - Transport of Pollutants - Gaussian Dispersion Model
Lecture 39 - Dispersion Model - Parameters - Part 1
Lecture 40 - Dispersion Model - Parameters - Part 2
Lecture 41 - Gaussian Dispersion Model
Lecture 42 - Gaussian Dispersion Model - Example, Additional topics
Lecture 43 - Regulatory Models
Lecture 44 - Introduction to Interphase Mass Transfer
Lecture 45 - Interphase mass transfer - Application to Environmental Interfaces
Lecture 46 - Interphase mass transfer - Flux and mass transfer resistance
Lecture 47 - Interphase mass transfer - Boundary Layer and Mass Transfer Coefficient
Lecture 48 - Interphase mass transfer - Individual and Overall Mass Transfer Coefficients
Lecture 49 - Overall Mass Transfer Coefficient
Lecture 50 - Estimation of the Mass Transfer Coefficients
Lecture 51 - Air-Water Exchange
Lecture 52 - Evaporation from different surfaces
Lecture 53 - Sediment-Water exchange
Lecture 54 - Application of Interphase mass transfer
Lecture 55 - Contamination of Sediments
Lecture 56 - Release from Sediments
Lecture 57 - Unsteady state release from sediments
Lecture 58 - Other mechanisms of chemical release from sediments - Part 1
Lecture 59 - Other mechanisms of chemical release from sediments - Part 2
Lecture 60 - Soil - Air Transfer
Lecture 61 - Remediation of contaminated sediments - Application of transport models