NPTEL Video Course - Civil Engineering - NOC:Water Supply Engineering

Subject Co-ordinator - Prof. Manoj Kumar Tiwari

Co-ordinating Institute - IIT - Kharagpur

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

Lecture 30 - Coagulation and Flocculation
Lecture 31 - Filtration Theory and Slow Sand Filters
Lecture 32 - Rapid Sand Filter
Lecture 33 - Rapid Sand Filters and Pressure Filters
Lecture 34 - Practice Problems Coagulation Flocculation and Filtration
Lecture 35 - Disinfection Basic
Lecture 36 - Chlorination
Lecture 37 - Other Disinfection Method
Lecture 38 - Sluge Management
Lecture 39 - Advanced and Alternate Treatment Systems
Lecture 40 - Advanced Oxidation Processes and Membrane Process
Lecture 41 - Practice Problems
Lecture 42 - Basic of Water Distribution System
Lecture 43 - Water Distribution Networks
Lecture 44 - Analysis of Water Distribution Networks
Lecture 45 - Problems onPipe Flow and Water Distribution Network
Lecture 46 - Water Losses in Water Distribution System
Lecture 47 - Water Balance for Water Loss Assessment and Performance Indicators
Lecture 48 - Water Loss Detection and Control
Lecture 49 - Practice Problems on Water Audit and Water Loss Estimation
Lecture 50 - Continuous (24*7) water supply systems
Lecture 51 - District metered area (DMA) for zoning in water distribution networks
Lecture 52 - Software for water distribution networks design and analysis
Lecture 53 - Demonstration on EPANET and GEMS
Lecture 54 - Concept of smart water supply systems
Lecture 55 - Smart Metering and sensing devices
Lecture 56 - IoT and Automation in Water Supply
Lecture 57 - Example of Automation and Smart Water Supply Systems
Lecture 58 - Economics of Water Supply Systems
Lecture 59 - Capital and Operational Cost of Water Supply System
Lecture 60 - Pricing Waters
Lecture 61 - Pricing Waters (Continued...)
Lecture 62 - Case studies and Practice Problem on Water Pricing