NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

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NPTEL Video Course - Civil Engineering - Ground Water Hydrology
Subject Co-ordinator - Dr. Anirban Dhar, Dr. V.R. Desaai
Co-ordinating Institute - IIT - Kharagpur
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Introduction
Lecture 2 - Ground Water in Hydrologic Cycle (Continued...), Ground Water Budget, Ground Water Level Fluctuat
Lecture 3 - Ground water Level Fluctuations and Environmental Influence (Continued...) Literature/Data/Interr
Lecture 4 - Ground water Level Fluctuations and Environmental Influence (Continued...) Literature/Data/Interr
Lecture 5 - Occurrence and Movement of Ground Water
Lecture 6 - Zones of Aeration and Saturation; Aquifers and their characteristics/classification
Lecture 7 - Aquifer Classification (Continued...), Ground water Basins and Springs; Dorcy's Law; Permeability
Lecture 8 - Determination pf Permeability
Lecture 9 - Ground Water (GW) flowrates and flow directions; general flow equations through porous media
Lecture 10 - General Flow Equations Through Porous Media (Continued...), Dupuit's Assumptions
Lecture 11 - 1-D Unconfined Ground water Flows; Steady Flow into Wells
Lecture 12 - Steady Flow into Wells (Continued...); Unsteady Flow into Wells
Lecture 13 - Unsteady Flow into Wells (Continued...)
Lecture 14 - Unsteady Radial Flow in Confined and Unconfined Aquifers
Lecture 15 - Unsteady Radial Flow in Leaky Aquifers (Continued...); Well Flow Near Aquifer Boundaries
Lecture 16 - Well Flow for Special Conditions; Partially Penetrating Wells; Horizontal Wells and Collector We
Lecture 17 - Well Completion; Well Development; Well Protection; Well Rehabilitation; Well testing for Yields
Lecture 18 - Well Protection/Rehabilitation/Testing for yield (Continued...); Artificial Ground Water Rechard
Lecture 19 - Concept and methods of Artificial Ground Water Recharge (Continued...); Recharge Mounds and Indu
Lecture 20 - Induced Recharge (Continued...); Wastewater recharge for reuse; Water spreading
Lecture 21 - Pollution and Quality Analysis of Ground Water
Lecture 22 - Ground Water Pollution from Industrial, Agricultural and Miscellaneous Sources (Continued...)
Lecture 23 - Ground Water Pollution from Miscellaneous Sources (Continued...), Attenuation and Underground Di
Lecture 24 - Potential Evaluation of Ground water Pollution; Physical/Chemical/Biological analysis of Ground
Lecture 25 - Ground water salinity and samples ; Graphical representations of ground water quality
Lecture 26 - Graphical representations of ground water quality (Continued...), SURFACE/SUB-SURFACE INVESTIGAT
Lecture 27 - Surface Investigation of ground water (Continued...)
Lecture 28 - Seismic refraction/gravity/magnetic methods (Continued...); Sub-surface investigation of ground w
Lecture 29 - Sub-surface investigation of ground water (Continued...)
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Lecture 30 - Radiation method of logging (Continued...); Temperature/caliper/fluid conductivity/fluid velocit
Lecture 31 - Saline Water Intrusion in Aquifers
Lecture 32 - Saline Water Intrusion in Aquifers
Lecture 33 - Saline Water Intrusion in Aquifers
Lecture 34 - Saline Water Intrusion in Aquifers
Lecture 35 - Modeling and Management of Ground Water
Lecture 36 - Modeling and Management of Ground Water
Lecture 37 - Modeling and Management of Ground Water
Lecture 38 - Modeling and Management of Ground Water
Lecture 39 - Modeling and Management of Ground Water
Lecture 40 - Modeling and Management of Ground Water
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