

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

NPTEL Video Course - Civil Engineering - NOC:Mathematical Geophysics

Subject Co-ordinator - Prof. Swarandeeep Sahoo

Co-ordinating Institute - IIT-ISM Dhanbad

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

- Lecture 1 - Scalar and Vectors
- Lecture 2 - Co-ordinate Systems
- Lecture 3 - Solid Angle
- Lecture 4 - Theory Of Fields
- Lecture 5 - Geometric Model of Fields
- Lecture 6 - Scalar Field and Gradient
- Lecture 7 - Flux of a field
- Lecture 8 - Divergence and Gauss Theorem
- Lecture 9 - Curl and Stokes's Theorem
- Lecture 10 - Green's Function and Theorem
- Lecture 11 - System of Equations
- Lecture 12 - Gravitational Field - I
- Lecture 13 - Gravitational Field - II
- Lecture 14 - Equations of Gravitational Field
- Lecture 15 - Upward Continuation
- Lecture 16 - System of Linear Differential Equation
- Lecture 17 - Time Invariant and Varying Fields
- Lecture 18 - Electric Field
- Lecture 19 - Electric Potential
- Lecture 20 - Electric Current, Conductivity, and Ohm's Law
- Lecture 21 - Diffusion
- Lecture 22 - Geothermal gradient
- Lecture 23 - Magnetic Diffusion
- Lecture 24 - Solution of Magnetic Diffusion Equation
- Lecture 25 - Decay of Magnetic Field
- Lecture 26 - Wave Equation
- Lecture 27 - Seismic waves
- Lecture 28 - Free Oscillation of the Earth
- Lecture 29 - Inertial wave

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- Lecture 30 - Internal Gravity Wave
- Lecture 31 - Laplace's and Poisson's equations
- Lecture 32 - Heat flows in the Earth
- Lecture 33 - Convective Heat Flows in the Mantle
- Lecture 34 - Outer Core Thermal Convection
- Lecture 35 - Outer Core Double-Diffusive Convection
- Lecture 36 - Fourier Analysis and Transform
- Lecture 37 - Linear Time-Invariant Systems and Filtering
- Lecture 38 - Sampling Theory for Time Series
- Lecture 39 - Transforms for Geophysical Analysis
- Lecture 40 - Data Driven Methods in Geophysics