

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

NPTEL Video Course - Chemical Engineering - NOC:Petroleum Reservoir Engineering

Subject Co-ordinator - Dr. Pankaj Tiwari

Co-ordinating Institute - IIT - Guwahati

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

- Lecture 1 - Introduction to Petroleum Reservoir Engineering
- Lecture 2 - Petroleum Reserves
- Lecture 3 - Petroleum Geology
- Lecture 4 - Well Drilling Methods
- Lecture 5 - Thermodynamics of Hydrocarbons
- Lecture 6 - Natural Gas Properties
- Lecture 7 - Properties of Crude Oil
- Lecture 8 - Reservoir Rock Properties
- Lecture 9 - Relative Permeability
- Lecture 10 - Primary Drive Mechanisms
- Lecture 11 - General Material (Volumetric) Balance
- Lecture 12 - Volumetric Balance in Oil and Gas Reservoir
- Lecture 13 - Fundamentals of Reservoir Fluid Flow
- Lecture 14 - General Equations for radial Flow in Reservoir
- Lecture 15 - Inflow Performance Relationship for Reservoir Fluids
- Lecture 16 - Well Testing and Performance - I
- Lecture 17 - Well Testing and Performance - II
- Lecture 18 - Secondary Oil Recovery Methods
- Lecture 19 - Enhanced Oil Recovery Methods
- Lecture 20 - Introduction to Reservoir Simulation
- Lecture 21 - Unconventional Natural Gas Production

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