NPTEL Video Course - Chemical Engineering - NOC:Flow through Porous Media

Subject Co-ordinator - Dr. Somnath Ganguly

Co-ordinating Institute - IIT - Kharagpur

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

Lecture 1 - Introduction (Definition Of Porous Media)
Lecture 2 - Introduction (Conceptual Flow Models)
Lecture 3 - Introduction (Applications)
Lecture 4 - Mass Continuity (Introduction)
Lecture 5 - Mass Continuity (Cartesian Coordinates)
Lecture 6 - Mass Continuity (Cylindrical Coordinates)
Lecture 7 - Mass Continuity (Radial Flow)
Lecture 8 - Mass Continuity (Non-Uniform Permeability)
Lecture 9 - Mass Continuity (Continued...)
Lecture 10 - Mass Continuity (Streamlines And Potential Lines)
Lecture 11 - Mass Continuity (Elementary Flow)
Lecture 12 - Mass Continuity (Source/Sink)
Lecture 13 - Mass Continuity (Superposition Of Elementary Flow)
Lecture 14 - Mass Continuity (Superposition Of Elementary Flow) (Continued...)
Lecture 15 - Transport Mechanisms (Introduction)
Lecture 16 - Transport Mechanisms (Combined Mode)
Lecture 17 - Transport Mechanisms (Adsorption/Pore Condensation)
Lecture 18 - Transport Mechanisms (Continued...)
Lecture 19 - Flow Equation (Introduction)
Lecture 20 - Flow Equations (Continued...)
Lecture 21 - Flow Equations (Viscous Flow in Capillary
Lecture 22 - Flow Equations (Packed Bed)
Lecture 23 - Flow Equations (Fluidized Bed)
Lecture 24 - Miscible Displacement (Uniform Velocity Over Capillary Cross-Section)
Lecture 25 - Miscible Displacement (Laminar Flow in Capillary)
Lecture 26 - Miscible Displacement (Movement of Concentration Pulse)
Lecture 27 - Miscible Displacement (Step Change in Concentration)
Lecture 28 - Miscible Displacement (Continued...)
Lecture 29 - Miscible Displacement (Continued...)

Lecture 30 - Miscible Displacement (Continued...)
Lecture 31 - Miscible Displacement (Continued...)
Lecture 32 - Miscible Displacement (Fractured Porous Media)
Lecture 33 - Miscible Displacement (Viscous Front)
Lecture 34 - Immiscible Flow
Lecture 35 - Immiscible Flow (Continued...)
Lecture 36 - Immiscible Flow (Continued...)
Lecture 37 - Immiscible Flow (Continued...)
Lecture 38 - Immiscible Flow (Continued...)
Lecture 39 - Immiscible Flow (Continued...)
Lecture 40 - Immiscible Flow (Continued...)
Lecture 41 - IMMISCIBLE FLOW (Continued...)
Lecture 42 - Immiscible Flow (Continued...)
Lecture 43 - Immiscible Flow (Continued...)
Lecture 44 - Immiscible Flow (Continued...)
Lecture 45 - Immiscible Flow (Continued...)
Lecture 46 - Immiscible Flow (Continued...)
Lecture 47 - Interception Of Suspended Solids
Lecture 48 - Interception Of Suspended Solids (Continued...)
Lecture 49 - Interception Of Suspended Solids (Continued...)
Lecture 50 - Interception Of Suspended Solids (Continued...)
Lecture 51 - Interception Of Suspended Solids (Continued...)
Lecture 52 - Interception Of Suspended Solids (Continued...)
Lecture 53 - Deformable Porous Media
Lecture 54 - Deformable Porous Media (Continued...)
Lecture 55 - Deformable Porous Media (Continued...)
Lecture 56 - Heat Transfer With Fluid Flow
Lecture 57 - Heat Transfer With Fluid Flow (Continued...)
Lecture 58 - Heat Transfer With Fluid Flow (Continued...)
Lecture 59 - Characterization
Lecture 60 - Characterization (Continued...)