NPTEL Video Course - Chemical Engineering - NOC:Chemical Reaction Engineering-II

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Co-ordinating Institute - IIT - Bombay

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

Lecture 30 - Estimation of conversion in Packed-bed reactor
Lecture 31 - Overall effectiveness factor - I
Lecture 32 - Overall effectiveness factor - II
Lecture 33 - Identification of internal diffusion and reaction-limited regimes
Lecture 34 - Packed-bed reactor design
Lecture 35 - Generalized criterion for diffusion and reaction-limited conditions
Lecture 36 - Network of first order reactions
Lecture 37 - Use of experimental data
Lecture 38 - Packed-bed reactor design
Lecture 39 - Fluidized bed reactor design - I
Lecture 40 - Fluidized bed reactor design - II
Lecture 41 - Fluidized bed reactor design - III
Lecture 42 - Fluidized bed reactor design - IV
Lecture 43 - Fluid-solid noncatalytic reactions - I
Lecture 44 - Fluid-solid noncatalytic reactions - II
Lecture 45 - Fluid-solid noncatalytic reactions - III
Lecture 46 - Fluid-solid noncatalytic reactions - IV
Lecture 47 - Fluid-solid noncatalytic reactions - V
Lecture 48 - Fluid-solid noncatalytic reactions - VI
Lecture 49 - Residence time distribution (RTD)
Lecture 50 - RTD
Lecture 51 - Measurement of RTD - I
Lecture 52 - Measurement of RTD - II
Lecture 53 - RTD function
Lecture 54 - Properties of RTD function
Lecture 55 - Reactor diagnostics and troubleshooting - I
Lecture 56 - Reactor diagnostics and troubleshooting - II
Lecture 57 - Modeling nonideal reactors - I
Lecture 58 - Modeling nonideal reactors - II
Lecture 59 - Non-ideal reactors
Lecture 60 - Non-ideal reactors