Mindluster Platform

About the course Chemical Process Intensification

Chemical Process Intensification course in hindi, in this course we explore methods to enhance efficiency and productivity in chemical processes through optimization and innovation.

Engineering Category's Courses

Course Lesson(36)

Lesson 1 : **Chemical Process Intensification Introduction Video**

Lesson 2 : **Lec 01 History Philosophy and Concept**

Lesson 3 : **Lec 02 Principle Features**

Lesson 4 : **Lec 03 Strategies and domain based techniques**

Lesson 5 : **Lec 04 Intensification by fluid flow process**

Lesson 6 : **Lec 05 Mechanism of Intensification by mixing**

Lesson 7 : **Lec 06 Intensification in Reactive system**

Lesson 8 : **Lec 07 Problems Leading to Sustainable Development**

Lesson 9 : **Lec 08 Concept Issues and Challenges**

Lesson 10 : **Lec 09 Strategies in Process Design**

Lesson 11 : **Lec 10 Scales and Stages of Process Intensification**

Lesson 12 : **Lec 11 Methods and Tools for Achieving Sustainable Design**

Lesson 13 : **Lec 12 Multi level Computer Aided Tools**

Lesson 14 : **Lec 13 Introduction on Stochastic Optimization**

Lesson 15 : **Lec 14 Optimization Algorithms**

Lesson 16 : **Lec 15 Applications of Optimization Algorithms**

Lesson 17 : **Lec 16 Introduction and Mechanism of Cavitation based PI**

Lesson 18 : **Lec 17 Cavitational Reactor Configurations and Activity**

Lesson 19 : **Lec 18 Parametric Effects on Cavitation**

Lesson 20 : **Lec 19 Introduction of Monolith Reactor**

Lesson 21 : **Lec 20 Preparation of Monolithic Catalyst**

Lesson 22 : **Lec 21 Application of Monolithic Catalyst**

Lesson 23 : **Lec 22 Hydrodynamics Transport of Monolithic Reactor**

Lesson 24 : **Lec23 Overview of Interfacial Area Based Processes**

Lesson 25 : **Lec 24 Ejector Induced Downflow System for PI**

Lesson 26 : **Lec 25 Hydrodynamics and Transport in Downflow System**

Lesson 27 : **Lec 26 Introduction and Principles**

Lesson 28 : **Lec 27 Types of Intensified Distillation Units**

Lesson 29 : **Lec 28 Design of membrane assisted distillation**

Lesson 30 : **Lec 29 Introduction and Principles**

Lesson 31 : **Lec 30 Supercritical Extraction for Process Intensification**

Lesson 32 : **Lec 31 Introduction to Membrane and its Principles**

Lesson 33 : **Lec 32 Membrane Engineering in Process Intensification**

Lesson 34 : **Lec 33 Introduction to microprocess technology**

Lesson 35 : **Lec 34 Process Intensification by Microreactors**

Lesson 36 : **Lec 35 Hydrodynamics and transport in microchannel based microreactor**

Related courses

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for Business Contact
business@mindluster.com