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1, Chapter 4, Isothermal Reactor Design - PFR Scott Fogler
25/50/75 Celebration Advanced Chemical Reaction
Engineering Lectures. Topic 1: Catalysis, Catalytic Reactors
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Mole Balance on a Plug Flow Reactor Chemical Engineering
Plant (Animation Design) Energy Balance For NonIsothermal
Reactor Design Membrane Reactor Introduction Isothermal
Plug Flow Reactor: Part 1 Membrane Reactor Catalytic
Packed Bed Reactor Kinetics - Reactor Design Equations
Lecture 30 - Seg 1, Chapter 4, Isothermal Reactor Design -
Micro-reactors Advanced Chemical Reaction Engineering
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Isothermal Reactor Design - Tutorial: Membrane Reactor

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Introduction to Chemical Reactor Design **General Mole Balance Reaction Engineering Lecture 21, Chapter 4, Isothermal Reactor Design - PBR: Effect of Pressure Drop on Conversion**

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Prof. Fogler's Lecture Notes. This page contains lecture notes from a typical Chemical Reaction Engineering class. The lectures are categorized into 3 different filetypes: Animated, Plain, and PDF. Animated lectures are for students who prefer studying bit-by-bit, while plain lectures are not animated.

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Essentials of Chemical Reaction Engineering

On the other hand, if more than one phase is involved, the reaction is said to be heterogeneous. An example is provided by the chemical vapour deposition (CVD) of Si on a substrate (Fogler, 1999, p. 675) $\text{SiH}_4(\text{g}) \rightarrow \text{Si}(\text{s}) + 2\text{H}_2(\text{g})$ (1.4) (silane) Equation (1.3) represents a non-catalytic reaction, whereas ammonia synthesis involves a solid catalyst.

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H. Scott Fogler is the Arthur F. Thurnau Professor, Vennema Professor of Chemical Engineering at the University of Michigan. His research interests include flow and reaction in porous media, fused chemical relations, gellation kinetics, and chemical reaction engineering problems in the petroleum industry.

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Ph.D. students from his research group and has published over 240 research articles. He and his students are well-known for their work in chemical reaction engineering in petroleum engineering, which encompasses a number of fundamental chemical engineering areas, specifically; reaction engineering, colloids, and multiphase flow.

H. Scott Fogler – Chemical Engineering

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