



# Fixed-Bed Reactor Design and Diagnostics: Gas-Phase Reactions

*Howard F. Rase*

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**Fixed-Bed Reactor Design and Diagnostics: Gas-Phase Reactions** Howard F. Rase

Fixed-Bed Reactor Design and Diagnostics: Gas-Phase Reactions presents the essential theoretical and conceptual background of gaseous reactions catalyzed by solid catalysts in fixed beds.

This book intends to provide recommendations to professionals who seek for modeling, scale-up, and diagnostics of fixed-bed reactors. The text is divided into three parts. Part I provides the conceptual background and relevant theories. Part II presents recommended mathematical models, scale-up procedures, and diagnostic methods. Part III gives a number of practical examples. The topics that are specifically discussed include heterogeneous catalysis and kinetics; general tubular reactor model; and general diagnostics for fixed-bed reactors.

Engineers and professionals working with fixed-bed reactors will find the book highly informative.

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