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Coulson and Richardson's Chemical Engineering: Volume 3A: Chemical and Biochemical Reactions and reactions and Reaction Engineering, Fourth Edition, covers reactor design, flow modelling, gas-liquid and gas-solid reactions and reactors. ranging from foundational through technical Features emerging applications, numerical methods and computational tools

Appropriate for a one-semester undergraduate or first-year graduate course, this text introduces the quantitative treatment of chemical reaction engineering. It covers both homogeneous and heterogeneous and heterogeneous and heterogeneous reaction engineering. Each chapter contains numerous worked-out problems and real-world vignettes involving commercial applications, a feature widely praised by reviewers and teachers. 2003 edition.

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