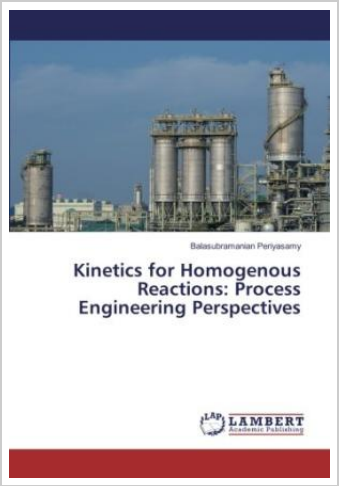

Kinetics for Homogenous Reactions: Process Engineering Perspectives

By Periyasamy, Balasubramanian

Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | This book describes a general kinetic modeling approach for homogeneous reactions occurring in a batch rector on the context of process engineering perspectives. The kinetic modeling approach presented here explains how reaction stoichiometry can be described in terms of stoichiometric coefficient matrices. When the law of mass action kinetics is introduced, these matrices can be used to develop reacting component rate expressions that describe the evolution of molar concentrations in a constant volume batch reactor. The applicability of the kinetic modeling approach for homogeneous reactions is demonstrated with four classical reactions, and are: (i) unimolecular reactions, (ii) bimolecular reactions, (iii) Michaelis-Menten enzyme kinetics, and (iv) free radical chemistry for thermal cracking of ethane. Besides, this book offers a tool for kinetic analysis to process engineers. | Format: Paperback | Language/Sprache: english | 52 pp.

Reviews

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