

CHEMICAL REACTION ENGINEERING

THIRD EDITION

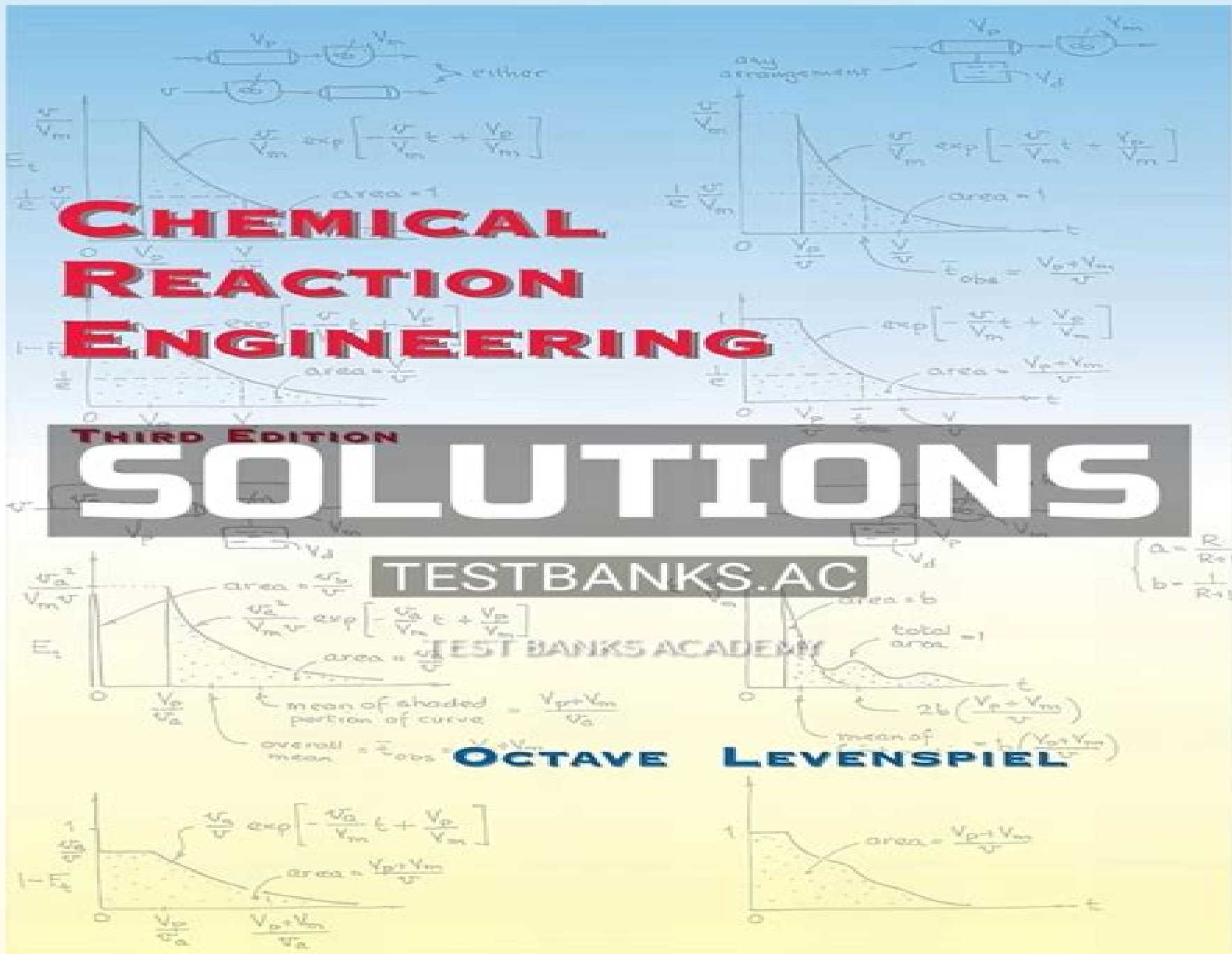
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Chemical Reaction Engineering and Reactor Technology, Second Edition Tapio O. Salmi, Jyri-Pekka Mikkola, Johan P. Wärnå, 2019-07-11 The role of the chemical reactor is crucial for the industrial conversion of raw materials into products and numerous factors must be considered when selecting an appropriate and efficient chemical reactor *Chemical Reaction Engineering and Reactor Technology* defines the qualitative aspects that affect the selection of an industrial chemical reactor and couples various reactor models to case specific kinetic expressions for chemical processes Thoroughly revised and updated this much anticipated Second Edition addresses the rapid academic and industrial development of chemical reaction engineering Offering a systematic development of the chemical reaction engineering concept this volume explores essential stoichiometric kinetic and thermodynamic terms needed in the analysis of chemical reactors homogeneous and heterogeneous reactors reactor optimization aspects residence time distributions and non ideal flow conditions in industrial reactors solutions of algebraic and ordinary differential equation systems gas and liquid phase diffusion coefficients and gas film coefficients correlations for gas liquid systems solubilities of gases in liquids guidelines for laboratory reactors and the estimation of kinetic parameters The authors pay special attention to the exact formulations and derivations of mass energy balances and their numerical solutions Richly illustrated and containing exercises and solutions covering a number of processes from oil refining to the development of specialty and fine chemicals the text provides a clear understanding of chemical reactor analysis and design *Chemical Reaction Engineering* Octave Levenspiel, 1998-09-01 Chemical reaction engineering is concerned with the exploitation of chemical reactions on a commercial scale Its goal is the successful design and operation of chemical reactors This text emphasizes qualitative arguments simple design methods graphical procedures and frequent comparison of capabilities of the major reactor types Simple ideas are treated first and are then extended to the more complex *Chemical Engineering Education*, 1984 **Sustainable Solutions for Environmental Pollution, Volume 2** Nour Shafik El-Gendy, 2022-05-04 SUSTAINABLE SOLUTIONS FOR ENVIRONMENTAL POLLUTIONS This second volume in a broad comprehensive two volume set Sustainable Solutions for Environmental Pollution concentrates on air water and soil reclamation some of the biggest challenges facing environmental engineers and scientists today This second

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