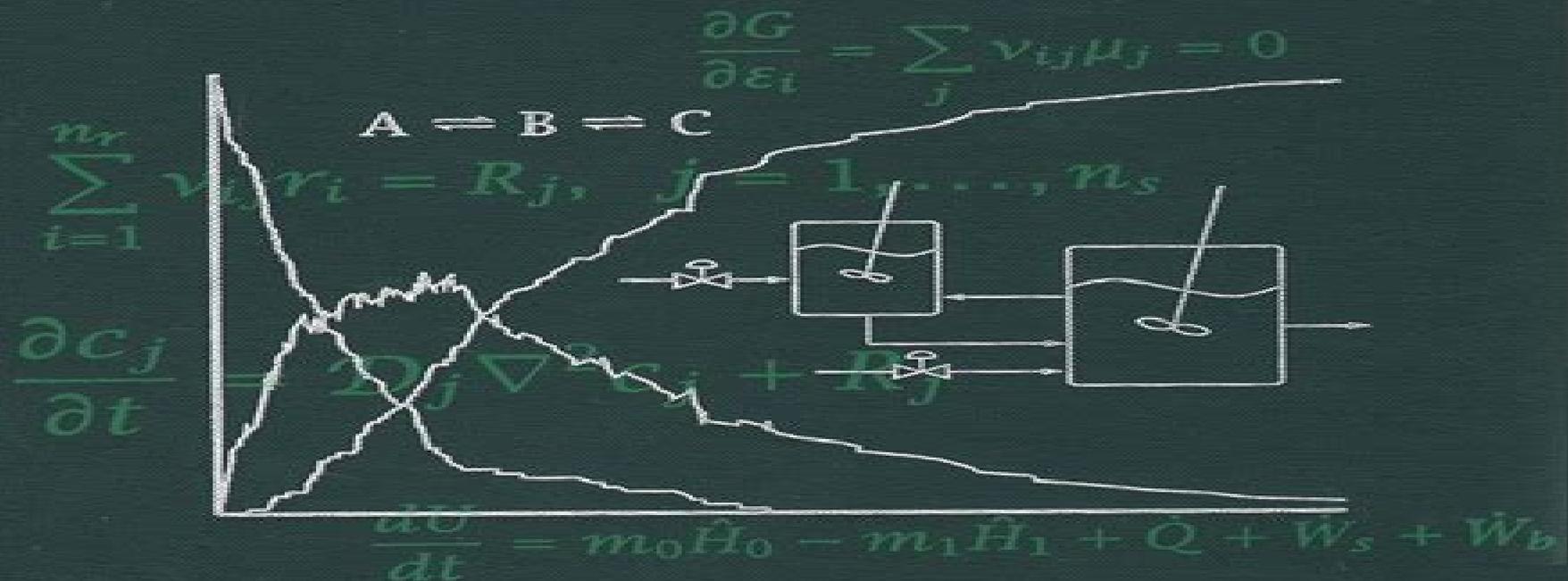


Chemical Reactor Analysis and Design Fundamentals

James B. Rawlings
John G. Ekerdt



Chemical Reactor Analysis And Design

James Blake Rawlings, John G. Ekerdt



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Gilbert F. Froment, Kenneth B. Bischoff, 1990 **Chemical Reactor Analysis and Applications for the Practicing Engineer** Louis Theodore, 2012-09-11 This book's format follows an applications oriented text and serves as a training tool for individuals in education and industry involved directly or indirectly with chemical reactors. It addresses both technical and calculational problems in this field. While this text can be complimented with texts on chemical kinetics and or reactor design it also stands alone as a self teaching aid. The first part serves as an introduction to the subject title and contains chapters dealing with history process variables basic operations kinetic principles and conversion variables. The second part of the book addresses traditional reactor analysis chapter topics include batch CSTRs tubular flow reactors plus a comparison of these classes of reactors. Part 3 keys on reactor applications that include non ideal reactors thermal effects interpretation of kinetic data and reactor design. The book concludes with other reactor topics chapter titles include catalysis catalytic reactors other reactions and reactors and ABET related topics. An extensive Appendix is also included. *Principles of Chemical Reactor Analysis and Design* Uzi Mann, 1999-01-01 *Principles of Chemical Reactor Analysis and Design* offers a comprehensive unified methodology to analyze and design chemical reactors using a reaction based design formulation rather than the common species based design formulation. The book's acclaimed approach addresses the weaknesses of current pedagogy by giving readers the knowledge and tools needed to address the technical challenges they will face in practice. *Introduction to Chemical Reactor Analysis* R.E. Hayes, 2020-12-17 This book provides an introduction to the basic concepts of chemical reactor analysis and design. It is intended for both the senior level undergraduate student in chemical engineering and the working professional who may require an understanding of the basics of this subject.

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