



Transport Processes in Chemically Reacting Flow Systems (Butterworths Series in Chemical Engineering)

Daniel E. Rosner

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This newly updated edition of a classic in the field by D. Daniel E. Rosner, Professor and former Chairman of the Department of Chemical Engineering at Yale University, offers science and engineering students with no prior background in fluid mechanics an introduction to the principles underlying the transport of energy, mass, and momentum in chemically reacting fluids.

The text is broad in perspective, but its presentation is selective, leaving many of the details for student exercises. Readers will acquire the background needed for more advanced, specialized topics and will learn to properly formulate and solve many important problems involving rates of energy, mass, or momentum transport in chemically reactive fluids. In addition to discussions of governing conservation principles and diffusion flux laws and their coefficients, the text examines the mechanisms, rates, and coefficients of momentum transport, energy transport, and mass transport; the role of experiment and theory; problem-solving techniques relating to forced convective heat and mass transfer to a tube in cross-flow; and much more.

Each of the eight chapters concludes with a summary, true-false questions, exercises, references, and a bibliography, and solutions to selected exercises are given at the book's end. The Supplement provides new material for each of the original eight chapters. The book is appropriate for both undergraduate and graduate courses.

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