

Laminar Flow and Convective Transport Processes: Scaling Principles and Asymptotic Analysis

Laminar Flow and Convective Transport Processes: Scaling Principles and Asymptotic Analysis, Vol. 22 #1 May, 1995

by L. Gary Leal and published by Butterworth Heinemann in their series in Chemical Engineering, 1992

Although most of the book deals with Newtonian fluids, it has an excellent treatment of process scaling needed to make appropriate approximations, including powerful asymptotic treatments. Using these approaches, mathematical descriptions of difficult flow problems can be developed.

An understanding of transport phenomena and tensor analysis is helpful in reading this book, although the subjects are introduced in the first chapters helped to fill this void by authoring this Engineering Polymer Sourcebook. This book is a must for any plastic reference library.

- John Collier