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this book teaches the basic equations of transport phenomena in a unified manner and uses the analogy between heat transfer and mass and
 momentum to explain the more difficult concepts part i covers the basic concepts in transport phenomena part ii covers applications in greater
 detail part iii deals with the transport properties the three transport phenomena heat mass and momentum transfer are treated in depth through
 simultaneous or parallel developments transport properties such as viscosity thermal conductivity and mass diffusion coefficient are
 introduced in a simple manner early on and then applied throughout the rest of the book advanced discussion is provided separately an entire
 chapter is devoted to the crucial material of non newtonian phenomena this book covers heat transfer as it pertains to transport phenomena
 and covers mass transfer as it relates to the analogy with heat and momentum the book includes a complete treatment of fluid mechanics for
 ch e s the treatment begins with newton s law and including laminar flow turbulent flow fluid statics boundary layers flow past immersed

bodies and basic and advanced design in pipes heat exchanges and agitation vessels this text is the only one to cover modern agitation design and scale up thoroughly the chapter on turbulence covers not only traditional approaches but also includes the most contemporary concepts of the transition and of coherent structures in turbulence the book includes an extensive treatment of fluidization computer programs and numerical methods are integrated throughout the text especially in the example problems

part ii covers applications in greater detail the three transport phenomena heat mass and momentum transfer are treated in depth through simultaneous or parallel developments

although computer technology has dramatically improved the analysis of complex transport phenomena the methodology has yet to be effectively integrated into engineering curricula the huge volume of literature associated with the wide variety of transport processes cannot be appreciated or mastered without using innovative tools to allow comprehen

specifically developed for food engineers this is an in depth reference book that focuses on transport phenomena in food preservation first it reviews the fundamental concepts regarding momentum heat and mass transfer then the book examines specific applications of these concepts into a variety of traditional and novel processes and products

this work highlights contemporary approaches to resource utilization and provides comprehensive coverage of technological advances in residuum conversion it illustrates state of the art engineering methods for the refinement of heavy oils bitumen and other high sulphur

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