



Transport Phenomena, Volume 1: A Unified Approach

By Robert S. Brodkey

Brodkey Publishing. Paperback. Book Condition: New. Paperback. 412 pages. Dimensions: 9.2in. x 6.2in. x 0.9in. 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. Es. The treatment begins with Newton's law and includes laminar flow, turbulent flow, fluid statics, boundary layers, flow past immersed bodies, and basic and advanced design in pipes, heat exchangers, and agitation vessels. This text is...



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