

Introduction To Fluid Mechanics Whitaker

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clifford k ho and stephen w webb sandia national laboratories p o box 5800 albuquerque nm 87185 usa gas and vapor transport in porous media occur in a number of important applications including drying of industrial and food products oil and gas exploration environmental remediation of contaminated sites and carbon sequestration understanding the fundamental mechanisms and processes of gas and vapor transport in porous media allows models to be used to evaluate and optimize the performance and design of these systems in this book gas and vapor are distinguished by their available

states at standard temperature and pressure 20 c 101 kpa if the gas phase constituent can also exist as a liquid phase at standard temperature and pressure e g water ethanol toluene trichloroethylene it is considered a vapor if the gas phase constituent is non condensable at standard temperature and pressure e g oxygen carbon dioxide helium hydrogen propane it is considered a gas the distinction is important because different processes affect the transport and behavior of gases and vapors in porous media for example mechanisms specific to vapors include vapor pressure lowering and enhanced vapor diffusion which are caused by the presence of a g phase constituent interacting with its liquid phase in an unsaturated porous media in addition the heat pipe exploits isothermal latent heat exchange during evaporation and condensation to effectively transfer heat in designed and natural systems

one hundred years ago in september 1888 professor lewis mills norton 1855 1893 of the chemistry department of the massachusetts institute of technology introduced to the curriculum a course on industrial chemical practice this was the first structured course in chemical engineering taught in a university ten years later norton s successor frank h thorpe published the first textbook in chemical engineering entitled outlines of industrial chemistry over the years chemical engineering developed from a simple industrial chemical analysis of processes into a mature field the volume presented here includes most of the commissioned and contributed papers presented at the american chemical society symposium celebrating the centenary of chemical engineering the contributions are presented in a logical way starting first with the history of chemical engineering followed by analyses of various fields of chemical engineering and concluding with the history of various u s and european departments of chemical engineering i wish to thank the authors of the contributions chapters of this volume for their enthusiastic response to my idea of publishing this volume and dr gianni astarita of the university of naples italy for his encouragement during the initial stages of this project

chemical reactor modeling closes the gap between chemical reaction engineering and fluid mechanics it presents the fundamentals of the single fluid and multi fluid models for the analysis of single and multiphase reactive flows in chemical reactors with a chemical reactor engineering rather than mathematical bias the book discusses numerical methods for solving the resulting equations as well as the interplay between physical and numerical modes it is organized in 12 chapters combining theoretical aspects and practical applications and covers some of the recent research in several areas of chemical reactor engineering this book contains a survey of the modern literature in the field of chemical reactor modeling the book is written by a chemical engineer for chemical process engineers using the standard terminology of this community it is intended for researchers and engineers who want to develop their own codes or who are interested in a deeper insight into commercial cfd codes in order to derive consistent extensions and to overcome black box practice it can also serve as a textbook and reference book for both students and practitioners

containing more than 2600 references and over 550 equations drawings tables photographs and micrographs this book describes hierarchical assemblies in biology and biological processes that occur at the nanoscale across membranes and at interfaces it covers recurrent themes in nanocolloid science including self assembly construction of supra

a comprehensive 20 volume reference encyclopedia on science and technology

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