Transport Phenomena: An Introduction to Advanced Topics
Larry A. Glasgow

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DESCRIPTION

Enables readers to apply transport phenomena principles to solve advanced problems in all areas of engineering and science.

This book helps readers elevate their understanding of, and their ability to apply, transport phenomena by introducing a broad range of advanced topics as well as analytical and numerical solution techniques. Readers gain the ability to solve complex problems generally not addressed in undergraduate-level courses, including nonlinear, multidimensional transport, and transient molecular and convective transport scenarios.

Avoiding rote memorization, the author emphasizes a dual approach to learning in which physical understanding and problem-solving capability are developed simultaneously. Moreover, the author builds both readers' interest and knowledge by:

- Demonstrating that transport phenomena are pervasive, affecting every aspect of life

- Offering historical perspectives to enhance readers' understanding of current theory and methods

- Providing numerous examples drawn from a broad range of fields in the physical and life sciences and engineering
Contextualizing problems in scenarios so that their rationale and significance are clear

This text generally avoids the use of commercial software for problem solutions, helping readers cultivate a deeper understanding of how solutions are developed. References throughout the text promote further study and encourage the student to contemplate additional topics in transport phenomena.

Transport Phenomena is written for advanced undergraduates and graduate students in chemical and mechanical engineering. Upon mastering the principles and techniques presented in this text, all readers will be better able to critically evaluate a broad range of physical phenomena, processes, and systems across many disciplines.

ABOUT THE AUTHOR

Larry A. Glasgow, PhD, is Professor of Chemical Engineering at Kansas State University. His research interests include fluid mechanics, with an emphasis on multiphase phenomena in turbulence. He has taught many core courses in chemical engineering, especially both undergraduate and graduate courses in transport phenomena. Dr. Glasgow's skills and enthusiasm for teaching have been recognized repeatedly, including the James Hollis Award for Excellence in Undergraduate Teaching, the Commerce Bank Outstanding Undergraduate Teaching Award, the Segebrecht Distinguished Faculty Achievement Award, the Snell Distinguished Career Award, and the Charles H. Scholer Faculty Achievement Award.

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