



# Modeling in Transport Phenomena, Second Edition: A Conceptual Approach

By Ismail Tosun

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*Modeling in Transport Phenomena, Second Edition* presents and clearly explains with example problems the basic concepts and their applications to fluid flow, heat transfer, mass transfer, chemical reaction engineering and thermodynamics. A balanced approach is presented between analysis and synthesis, students will understand how to use the solution in engineering analysis. Systematic derivations of the equations and the physical significance of each term are given in detail, for students to easily understand and follow up the material.

There is a strong incentive in science and engineering to understand why a phenomenon behaves the way it does. For this purpose, a complicated real-life problem is transformed into a mathematically tractable problem while preserving the essential features of it. Such a process, known as mathematical modeling, requires understanding of the basic concepts. This book teaches students these basic concepts and shows the similarities between them. Answers to all problems are provided allowing students to check their solutions. Emphasis is on how to get the model equation representing a physical phenomenon and not on exploiting various numerical techniques to solve mathematical equations.

- A balanced approach is presented between analysis and synthesis, students will understand how to use the solution in engineering analysis.
- Systematic derivations of the equations as well as the physical significance of each term are given in detail
- Many more problems and examples are given than in the first edition - answers provided

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#### **About the Author**

The author has been teaching undergraduate and graduate level thermodynamics courses for over 30 years. Since 1989 he has been a professor at the Middle East Technical University (METU), Ankara, Turkey. He has also taught at the Turkish Military Academy and the University of Akron, Ohio. Professor Tosun received his BS and MS degrees from METU, and a PhD degree from the University of Akron, all in chemical engineering. He is the author of the book *Modeling in Transport Phenomena*, 2nd Ed., published by Elsevier. His research interests include mathematical modeling and transport phenomena. He is the author or co-author of over sixty publications.

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