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Computational techniques have become indispensable tools in solving complex problems in transport phenomena. This book provides a clear, user-oriented introduction to the subject of computational transport phenomena. Each self-contained chapter includes a detailed worked example and a discussion of the problem system equations. Also included are the numerical methods used; computer code for the solution of the problem system equations; discussion of the numerical solution with emphasis on physical interpretation; and, when appropriate, a comparison of the numerical solution with an analytical solution or a discussion of how the numerical solution goes beyond what can be done analytically, especially for nonlinear problems. Intended for students and a broad range of scientists and engineers, the book includes computer code written in transportable Fortran so the reader can produce the numerical solutions and then extend them to other cases.