Analytical and Approximate Methods in Transport Phenomena
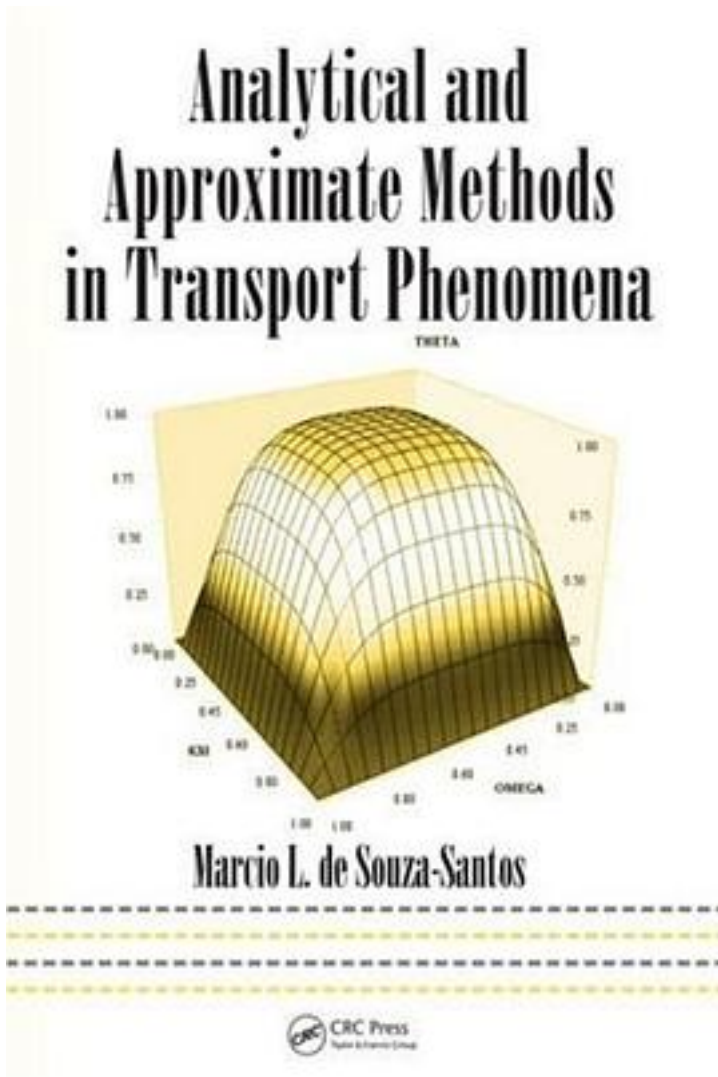
Analytical and Approximate Methods in Transport Phenomena_下载链接1_

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On the job or in the field, when facing a problem with differential equations and boundary conditions, most likely you don't have time to read through several publications in search of a method that may or may not solve your problem. Organized for quick and easy access to practical solutions, "Analytical and Approximate Methods in Transport Phenomena" is a reference for the day-to-day problems encountered when working with variables in heat, mass, or momentum transfer. This text is organized differently from usual resources on applied mathematics for engineers.First, it introduces a new classification system of the problem based on just three numbers, so locating the appropriate solution method is quick and easy. Second, the author presents mathematical methods with applications in mind, introducing examples, as well as common or possible solutions, before presenting any mathematical theory or method. This allows you to identify the issue you need to resolve, then apply the appropriate method to the problem at hand. The book also includes practical discussions of the consequences and applications of various solutions. The book highlights mathematical methods as tools for solving practical problems, not as a primary objective. Its structure and focus on application, with just the right amount of mathematical rigor, makes it the most effective manual available for easily finding the analytical methods needed to solve transport problems.

作者介绍:

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