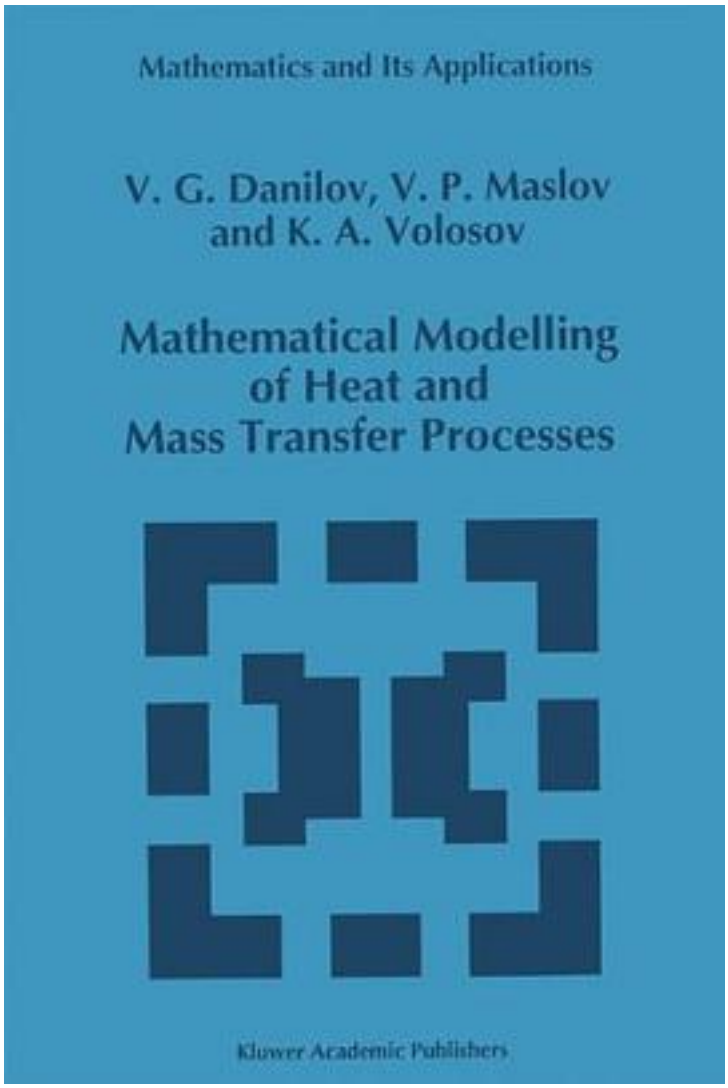
Mathematical Modelling of Heat and Mass Transfer Processes (Mathematics and Its Applications)



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This book presents an up-to-date review of methods for constructing a specific class of asymptotic solutions, called self-stabilizing solutions. This class includes solitons, kinks, travelling waves, etc. Either the solutions for this class or their derivatives are localized in the neighbourhood of a certain curve of surface. The book can be divided into two parts: Chapters I-V contain the methods for constructing asymptotic solutions, and in Chapters VI-VII these are applied to some concrete problems. The Appendix briefly discusses a method for the justification of some asymptotic solutions. Audience: This book will be of interest to specialists both in differential equations and in the mathematical modelling of physical and chemical processes.

作者介绍:

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