



Computational Techniques for Complex Transport Phenomena

Wei Shyy, S. S. Thakur, H. Ouyang, J. Liu, E. Blosch

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This book describes some newly developed computational techniques and modeling strategies for analyzing and predicting complex transport phenomena. It summarizes advances in the context of a pressure-based algorithm and discusses methods such as discretization schemes for treating convection and pressure, parallel computing, multigrid methods, and composite, multiblock techniques. The final chapter is devoted to practical applications that illustrate the advantages of various numerical and physical tools. The authors provide numerous examples throughout the text.

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