# Slow Viscous Flows: Qualitative Features and Quantitative Analysis Using Complex Eigenfunction Expansions

*By P N Shankar*

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This unique book provides a unified and systematic account of internal, external and unsteady slow viscous flows, including the latest advances of the last decade, some of which are due to the author. The book shows how the method of eigenfunctions, in conjunction with least squares, can be used to solve problems of low Reynolds number flows, including three-dimensional internal and unsteady flows, which until recently were considered intractable. Although the methods used are quantitative, much stress is laid on understanding the qualitative nature of these intriguing flows. A secondary purpose of the book is to explain how the complex eigenfunction method can be used to solve problems in science and engineering.

Although primarily aimed at graduate students, academics and research engineers in the areas of fluid mechanics and applied mathematics, care has been taken, through the use of numerous diagrams and much discussion, to explain to the non-specialist the qualitative features of these complex flows.

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## Editorial Review

Review
It should be a valuable addition to the literature, presenting an in-depth treatment of a subject not covered elsewhere in similar detail. -- Mathematical Reviews "Mathematical Reviews"

Review
This book provides a comprehensive overview of the subject matter it sets out to describe, which is eigenfunction expansions for both complex geometries in both two- and three-dimensions, mostly in internal flows. This is a valuable reference book for those working in the area of viscous flows.

## Users Review

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