

vorticity at a three-dimensional wall, as illustrated in figures 13.2 and 13.7 of the book, and the associated vorticity flux shed away from the wall, are described in a way that will inspire students and be very refreshing for instructors.

The chapter on thermodynamics in the second edition has been reduced—and rightly so—to the essentials needed in describing incompressible flow concepts incorporating some heat transfer. (There is also a section on

compressible flows, despite the title of the book. This, however, is needed in describing the distinctive role of density variations and arbitrary thermodynamic relations in several applications.) The coverage of incompressible flows has been split according to the flows' Reynolds number into low, moderate and high Reynolds-number regimes. Introduction to numerical solutions by way of finite-difference techniques is also provided as demonstra-

tion of their applicability to more complex problems. Two chapters devoted to stability, transition and turbulence are the stepping stones to more advanced concepts for students interested in research topics and recent progress in the field.

As intended, this book is best suited for use in graduate courses. The book covers substantially more material than would a single graduate course in fluid mechanics. As an option for those who do not have room in the curriculum to accommodate a pair of courses on incompressible fluid mechanics, chapters could be selected as material for a single course.

The author is to be praised for providing a book that, according to many colleagues, is "teachable" and that offers material that will enrich and excite students. I have been using the first edition of this interesting and well-written book in all my courses since it first appeared, and now I have adopted the second edition, although I would have been happier had the front cover of the first edition been retained.

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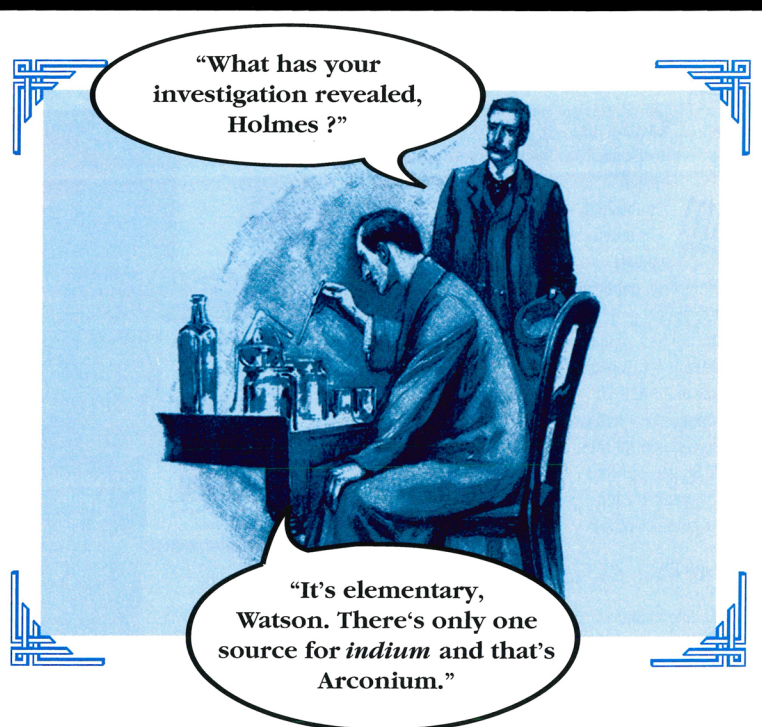
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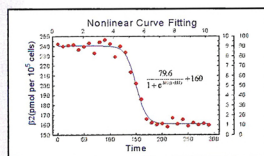
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