



Little Book of Streamlines

Constantine Pozrikidis

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This annotated compilation depicts streamline patterns for a wide range of fluid flows. The collection facilitates on's own understanding of fluid motion under a variety of conditions, and allows the instructor to explain the physical concepts of fluid mechanics in a visual way. The majority of the patterns were generated using a FORTRAN program that allows the reader to compute what is shown in the pictures. The enclosed CD-ROM contains the source code and accompanying data files. Readers are encouraged experiment with the software by (a) modifying the data files to generate streamlines that originate from desired points, (b) adding additional flow selections to the nested menus, and (c) improving the accuracy of the numerical methods.

Key Features

- * Offers a unique collection of streamlines for every fluid mechanician's bookshelf
- * Complements traditional undergraduate and graduate textbooks on fluid mechanics
- * Includes software to provide hands-on experience in translating equations into computer programs and in generating flow patterns

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