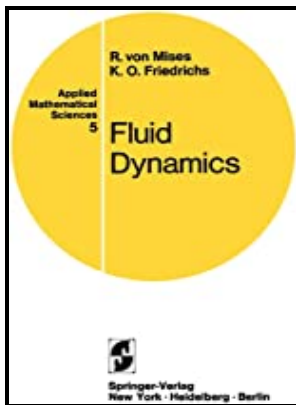


Fluid dynamics; containing also Supplementary notes on the hodograph method in the theory of compressible fluid

- - Fluid Dynamics



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Fluid Dynamics

Problems in fluid dynamics Scientists often try to visualize flow using figures called streamlines, streaklines and pathlines. Flow describes a wide range of fluid movement, such blowing through the air, flowing through a pipe, or running along a surface. Fluid dynamics is one of two branches of fluid mechanics, which is the study of fluids and how forces affect them.

Fluid Dynamics

To make the distinction clear, consider the flow rate of a river. A rapid mountain stream carries far less water than the Amazon River in Brazil, for example. Let's do it that way, just to convince ourselves that the methods are the same.

What Is Fluid Dynamics?

Fluids can flow steadily, or be turbulent.

14.7: Fluid Dynamics

Another method for representing fluid motion is a streamline.

14.7: Fluid Dynamics

For the same volume to pass points 1 and 2 in a given time, the speed must be greater at point 2. Unsurprisingly, fluid statics can be considered to be a little less thrilling much of the time than fluid dynamics. Note that Re is not only a property of the fluid; it also includes the conditions of its flow such as its speed and the size and shape of the conduit or any obstructions.

Fluid Dynamics

The fluid flow equations are solved simultaneously with of electromagnetism.

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