

Visual Resources

Following is a list of films, all but the first by the National Committee for Fluid Mechanics Films (NCFMF), founded in 1961 by the late Ascher H. Shapiro, then professor of Mechanical Engineering at the Massachusetts Institute of Technology. Descriptive text for the films was published separately as described below.

The Fluid Dynamics of Drag, Parts I, II, III, IV (1960)

Text: Ascher H. Shapiro, *Shape and Flow: The Fluid Dynamics of Drag*, Doubleday and Co., New York (1961).

Vorticity, Parts I, II (1961)

The text for this and all following films is: NCFMF, *Illustrated Experiments in Fluid Mechanics*, MIT Press, Cambridge, MA (1972).

Deformation of Continuous Media (1963)

Flow Visualization (1963)

Pressure Fields and Fluid Acceleration (1963)

Surface Tension in Fluid Mechanics (1964)

Waves in Fluids (1964)

**Boundary Layer Control* (1965)

Rheological Behavior of Fluids (1965)

Secondary Flow (1965)

Channel Flow of a Compressible Fluid (1967)

Low-Reynolds-Number Flows (1967)

Magnetohydrodynamics (1967)

Cavitation (1968)

Eulerian and Lagrangian Descriptions in Fluid Mechanics (1968)

Flow Instabilities (1968)

Fundamentals of Boundary Layers (1968)

Rarefied Gas Dynamics (1968)

Stratified Flow (1968)

Aerodynamic Generation of Sound (1969)

Rotating Flows (1969)

Turbulence (1969)

Although these films are decades old, they remain excellent visualizations of the principles of fluid mechanics. All but the one marked with an asterisk are available for viewing on the MIT website: <http://web.mit.edu/fluids/www/Shapiro/ncfmf.html>. It would be very beneficial to view the film appropriate to the corresponding section of the text.