

13.021 Marine Hydrodynamics, Fall 2004

Fluid Mechanics Films

The following films are available on video cassettes and can be viewed in the Media Services Area on the 5th floor of Barker Engineering Library. If you have any questions about the collection, call the Media Services Area at x3-5694.

Detailed descriptions of the films appear in **Illustrated Experiments in Fluid Mechanics**, MIT Press, 1974.

Highly Recommended Films

Film Title	Running Time	Call Number
Eulerian and Lagrangian Descriptions in Fluid Mechanics	27 min	QA901.E9
Flow Visualization	30 min	QC151.F5
Fluid Dynamics of Drag, I	21 min	TL574.D7.F5
Fluid Dynamics of Drag, II	32 min	TL574.D7.F5
Fluid Dynamics of Drag, III	37 min	TL574.D7.F5
Fluid Dynamics of Drag, IV	29 min	TL574.D7.F5
Fundamentals of Boundary Layers	24 min	QC151.F8
Pressure Fields and Fluid Acceleration	30 min	QC151.P7
Turbulence	28 min	QC151.T8
Vorticity	45 min	QC159.V6
Waves in Fluids	33 min	QC157.W3

Suggested Films

Film Title	Running Time	Call Number
Boundary Layer Control	26 min	TL574.B6.B6
Cavitation	32 min	QC151.C3
Flow Instabilities	27 min	QC151.F5
Low Reynolds Number Flows	33 min	QC151.L6
Non-Newtonian Fluids	16 min	QA929.5.N66
Rotating Flows	29 min	QC151.R6
Secondary Flow	29 min	QC151.S42
Separated Flows, I	14 min	QC151.S4
Separated Flows, II	15 min	QC151.S4
Separation of Fluid Flow and the Formation of Turbulent Zones	26 min	QC145.S4
Surface Tension in Fluid Mechanics	29 min	QC183.S9
Wave Velocities, Dispersion and the Omega-Beta Diagram	28 min	QA927.W355