

An Introduction To Fluid Mechanics And Transport Phenomena

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An Introduction to Computational Fluid Mechanics by ... Fluid mechanics is the study of fluids at rest and at motion and can be divided into two main categories, which are static fluid mechanics and dynamic fluid mechanics. In static fluid mechanics, the fluid is either at rest or is undergoing rigid-body motion. In dynamic fluid mechanics, the fluid may have an acceleration term and can undergo deformations. Five relationships are the most useful in fluid mechanics problems, which include kinematic, stresses, conservation, regulating, and ...