

## CHAPTER OVERVIEW

### 51: Fluid Statics

A fluid is any substance that flows. Although it is usually a liquid or a gas, a granular solid or powder can behave as a fluid in certain processes such as fluidization. The study of fluids and fluid flow is its own branch of mechanics, and an active area of research. In this chapter and the next, we'll present a broad overview of the basics of fluid statics (stationary fluids) and fluid dynamics (fluids in motion).

[51.1: Archimedes' Principle](#)

[51.2: Floating Bodies](#)

[51.3: Pressure](#)

[51.4: Change in Fluid Pressure with Depth](#)

[51.5: Pascal's Law](#)

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