

# Importance and Applications of Fluid Dynamics in Civil Engineering and Mechanical Engineering

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**Abstract.** Fluid dynamics is the study of the behavior of liquids and gasses in motion. Scientists across several fields study fluid dynamics. Fluid dynamics cannot only help the development of astronomy, meteorology, oceanography, even provides methods for blood circulation, it can also play an important role in Engineering. In Civil engineering and Mechanical engineering, fluid dynamics has totally different applications. In the future, scientists and engineers must discover more uses of fluid dynamics in many different fields to make people better.

**Keywords:** fluid dynamics; liquids; astronomy.

## 1. Introduction

Around 250 BC, Archimedes invented the law of buoyancy, called Archimedes' Principle in his literary work *On Floating Bodies*. This was the earliest theory about fluid mechanics. In the 15th century, the Italian mechanics scientist, Leonardo da Vinci, developed the principle of fluid volume energy conservation. In 1986, Macagno considered the flow characteristics of different liquids, including not only common water, but also the flow phenomena and laws of daily drinks in pipes. This research result directly promoted the development of fluid mechanics [1].

With the rapid development of technology and environment, scientists and engineers begin to pay more attention to how to develop natural resources, like water and gas [2]. Therefore, Fluid Dynamics plays an important role in engineering. In Fluid Dynamics, Speed, pressure, density, and temperature are the main calculation objects [3]. Another number called Reynolds number is used in large numbers when it comes to contact with tubes or heat in fluid dynamics. It usually stands by  $Re$ . The general formula for it is  $Re = \rho uL/\mu$ . Reynolds number is used to estimate the flow in the tube, whether turbulent or stable. Smaller Reynolds number usually stands for a larger effect from the viscosity.

In this paper, it shows the main reasons of the importance and the application of examples of fluid dynamics in Civil Engineering and Mechanical Engineering, and comparison of fluid dynamics in Civil Engineering and Mechanical.

## 2. Fluid Dynamics in Civil Engineering

### 2.1 Wind Tunnel Test

The building code may be used as a starting point for many types of construction's original design. For the final design, the civil engineers frequently use the wind tunnel test to fine tune. Nonetheless, from a structural design standpoint, taller structures provide greater difficulties since their dynamic response becomes more noticeable [3]. The best way to test the stability of a building is the wind tunnel test. The wind tunnel test uses wind fluid dynamics to ensure the safety of the building in any severe weather.

As the Figure 1 shows, this is the 15:1 Aspect Ratio model of a 96 stories residential tower located at 432 Park Avenue, New York City. During the wind tunnel test, the civil engineers will turn on the wind machine and rotate the model to test wind resistance of each side of the model. After that, the civil engineers would get the data to calculate the stability of the building.

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