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Applications of fluid mechanics include a variety of machines, ranging from the water-wheel to the airplane. In addition, the study of fluids provides an understanding of a number of everyday phenomena, such as why an open window and door together create a draft in a room.

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Their are a number of applications of fluid mechanics I'll try to list them. Aerodynamics. Aerospace. Hydrology. Navel architecture. Geophysical phenomenon. Microfluidics. Biophysics. Cardiovascular study. Magnetohydrodynamic. Quantum mechanics.

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Though applications of Bernoulli's principle are among the most dramatic examples of fluid mechanics in operation, the everyday world is filled with instances of other ideas at work. Pascal's principle, for instance, can be seen in the operation of any number of machines that represent variations on the idea of a hydraulic press.

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Fluid mechanics is the branch of physics concerned with the mechanics of fluids (liquids, gases, and plasmas) and the forces on them. [1] : 3 It has applications in a wide range of disciplines, including mechanical , civil , chemical and biomedical engineering , geophysics , oceanography , meteorology , astrophysics , and biology .

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