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heat to the atmosphere, which is at a high temperature. In air conditioners, the refrigerant absorbs room heat and throws it in to the atmosphere keeping the room cool.

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the study of the effect of forces on fluid motion. It is a branch of continuum mechanics, a subject which models matter without using the information that it is made out of atoms, that is, it models matter from a macroscopic viewpoint rather

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dynamics, the study of the effect of forces on fluid motion. It is a branch of continuum mechanics, a subject which models matter witho

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Applications of fluid mechanics.

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study; Biophysics; Pipe network;
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Definition and types of fluids

Fluid Mechanics | Definition,
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Fluid mechanics is the study of
fluid behavior (liquids, gases,

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(blood, and plasmas) at rest and in motion. Fluid mechanics has a wide range of applications in mechanical and chemical engineering, in biological systems, and in astrophysics. In this chapter fluid mechanics and its application in biological

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theoretical foundation for
hydraulics, which focuses on the

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engineering uses of fluid properties. In fluid power, hydraulics are used for the generation, control, and transmission of power by the use of pressurized liquids.

Applications of fluid 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,

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can be seen in the operation of
any number of machines that
represent variations on the idea
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Real-life applications - Fluid
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an ancient science that alive
incredibly today. The modern
technology requires a deeper
understanding of the behavior of
real fluid on other hand

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mathematical problems solved by
new discovery. Fluid mechanics
played a special role

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Archimedes' PrincipleArchimedes'
Principle states that "when a

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body is wholly or partially immersed in a fluid, it is acted upon by an upthrust which is equal to the weight of the fluid displaced. This upthrust, or buoyancy, acts through the centre of mass of the displaced fluid.

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understand the behavior of fluid
under various forces and at
different atmospheric conditions,

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and to select the proper fluid for various applications. This field is studied in detail within Civil Engineering and also to great extent in Mechanical Engineering and Chemical Engineering.

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Hydraulics, branch of science concerned with the practical applications of fluids, primarily liquids, in motion. It is related to

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fluid mechanics (q.v.), which in large part provides its theoretical foundation. Hydraulics deals with such matters as the flow of liquids in pipes, rivers, and channels and their confinement by dams and tanks.

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