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Hydrostatic pumps are sources of flow so that when they are con- nected to a hydraulic motor,...

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Fluid power systems are manufactured

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PRINCIPLES OF HYDRAULIC SYSTEMS DESIGN

familiar with many hydraulic principles and their applications. The Egyptians

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and the ancient people of Persia, India, and China conveyed water along channels for irrigation and domestic purposes, using dams and sluice gates to control the flow. The ancient Cretans had an elaborate plumbing system.

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Fundamental physical principles of

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hydraulics The energy content of a hydraulic system is made up of several forms of energy. As stated in the law of conservation of energy, the total energy of a flowing liquid is constant. It only changes when energy in the form of work is externally supplied or carried away.

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media are called as hydraulic systems. The hydraulic system works on the principle of Pascal's law which says that the pressure in an enclosed fluid is uniform in all the directions.

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