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2 Practical Hydraulic Systems: Operation and Troubleshooting mechanical energy by means of a water wheel. Ancient historical accounts show that, water was used for centuries to generate power by means of water wheels. However, this

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A basic hydraulic system. Hydraulic System Operating Principles There are two fundamental principles that must be understood when troubleshooting hydraulic system problems. 1. Pumps (which may be vane, gear, or piston types) are used in hydraulic systems to produce sufficient flow to obtain the speed required from cylinders or motors.

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Practical Hydraulic Systems Operation and Troubleshooting for Engineers and Technicians Ravi Doddannavar BEng (MechEng), Project manager and consultant, Pune, India Andries Barnard Dip.MechEng, Senior Lecturer, Technikon Pretoria, South Africa

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18) Describe what components determine maximum force/torque output of a hydraulic system. 19) Describe, using a diagram, the primary components which make up a hydraulic cylinder. 20) Explain what causes pressure in a hydraulic system. 21) Describe the two "sources" of pressure in a hydraulic system.

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Module 5: Hydraulic Systems . Lecture 1 . Introduction . 1. Introduction The controlled movement of parts or a controlled application of force is a common requirement in the industries. These operations are performed mainly by using electrical machines or diesel, petrol and steam engines as a prime mover. These prime

movers can

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7 Hydraulic analysis and design 7.1 Overview Hydraulic analysis is an essential prerequisite for any project involving the implementation of works in a river. Much analysis of hydraulics " for the purpose of design " can be carried out by applying basic theory rather than resorting to numerical or physical modelling techniques.

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Recognize the impact hydraulic fluids have on components Describe the correct operation, control sequences and procedures for the safe operation of various hydraulic systems Initiate an effective inspection and maintenance program Minimize forced outages and prevents series damage to hydraulic equipment

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A power source (hydraulic package or unit) for practical systems consists of a hydraulic pump, a motor, and a reservoir, as shown in Fig. 1.2. Depending on the required accuracy and operability, control valves, such as proportional electro-hydraulic control valves and servo valves, are also incorporated in the systems. Recently,

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