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Mechanical Engineering Laboratory Equipments

Losses In Pipe For Engineering Schools

LOSSES IN PIPE, technical teaching equipment for engineering -Major and minor losses associated with pipe flow in piping networks helps in determining the pumping power requirements, material and fittings selection. A good understanding of such losses helps engineers in designing optimum fluid distribution systems process plants etc. This apparatus is designed to introduce students to minor flow losses(Fittings) in Pipes.



Mechanical Engineering Laboratory Equipments

Metacentric Height Apparatus For Engineering Schools

METACENTRIC HEIGHT APPARATUS, technical teaching equipment for engineering-Fundamentals of Buoyancy, Metacenter and Metacentric Height are extensively used in Design and stability of Ships, Submarines, Hot air balloons etc. Apparatus consist of SS reservoir tank mounted on sturdy frame. A small ship model made of Perspex has a provision to put load on the deck and has an arrangement to measure the inclination due to loading. Optionally experiment can be further modified to represent conditions as cargo ship and warfare ship.



Mechanical Engineering Laboratory Equipments

Impact of Jet Apparatus For Engineering Schools

Details of Impact of Jet
Apparatus For Engineering
Schools



Mechanical Engineering Laboratory Equipments

Notch Apparatus For Engineering Schools

NOTCH APPARATUS, technical teaching equipment for engineering-Notches or Weirs allow hydrologists and engineers a simple method of measuring the volumetric flow rate in small to medium-sized streams, or in industrial discharge locations. The apparatus is used to calibrate the following types of notches: Rectangular Notch. Triangular Notch. Trapezoidal Notch or Cipolletti Weir. A flow control valve permits variation of flow rate through the circuit. Open flow channel with necessary baffle ensures smooth flow of water. Channel has arrangement to replace different types of notches through simple bolting arrangement. Open Flow Channel: 250 x 200 x 1000 mm. Rectangular Notch: 50 mm wide. Triangular Notch: 450 and 600. Trapezoidal Notch: Slope 1:4. Sump tank capacity: 100 litres MOC: 18 X 18 X 24 Electro- Plating Tank (PVC). Volumetric tank capacity: 40 litres MOC: SS-304 with Matt Buffing. Pump: Monoblock type, 0-60 litre/min, Motor 0.5 HP.



Mechanical Engineering Laboratory Equipments

Orifice And Mouthpiece Apparatus For Engineering Schools

Orifice And Mouthpiece Apparatus, technical teaching equipment for engineering-Both orifices and mouthpieces are usually used for measuring the rate of flow of fluid. A constant head tank is fitted with discharge fixture where both orifice and mouthpiece can be fitted. A jet collecting tank collects the discharge and X-Y Trajectory probes measures coordinates of jet. Thus Cd, Cc, & Cv of orifice as well as Cd of mouthpiece can be determined. Set of Orifice: 8 mm & 10 mm (Round & Square). Set of Mouthpiece: 8 mm & 10mm Dia (Round & Square) 30 mm Length. X-Y Probe or 5 Nos. Trajectory Probes. Constant Head Tank: 300 x 300 X 400 mm MOC: Perspex. Sump tank capacity: 100 litres MOC: Electroplating Tank (PVC). Volumetric tank capacity : 40 litres. MOC: SS-304 with Matt Buffing. Pump: Monoblock type, 0-60 litre/min, Motor 0.5 HP.



Mechanical Engineering Laboratory Equipments

ORIFICE METER for engineering schools

ORIFICE METER, technical teaching equipment for engineering -WITH S.S. TANK This apparatus is designed to introduce students to three basic types of flow meters: Venturimeter. Rotameter or Variable area meter. Orificemeter. Nozzle Meter (Optional). Box Dimensions: 1000 X 500 X 1670 mm. U- tube manometer : 300-0-300 (Mercury filled). Orifice Diameter : 16 mm. Variable Area Meter : 100-1000 LPH. Venturimeter : Throat Diameter 16 +/- 1 mm. Sump tank capacity : 100 litres MOC: Electroplating Tank (PVC). Volumetric tank capacity : 40 litres. MOC: SS-304 with Matt Buffing. Pump : Monoblock type, 0-60 litre/min, Motor 0.5 HP. Piping with necessary Valves and Fittings.



Mechanical Engineering Laboratory Equipments

REYNOLDS APPARATUS for engineering schools

REYNOLDS APPARATUS, technical teaching equipment for engineering -Reynolds's Number is a dimension less number used by engineers to determine type of Fluid Flow and testing on scale down models of airplanes, ships etc. Apparatus consists of a constant head tank and a small 'dye' tank. The constant head tank has a horizontal/vertical transparent tube with a and a flow control valve at the discharge side. The velocity of water is varied by the flow control valve. When the dye is introduced then laminar or turbulent nature of the flow can be visualized. Sump Tank: 550 X 430 X 225. Flow Pipe length: 700 mm. Measuring Flask: 1 litre. Dye Material : Potassium Permanganate. Pump: Submersible type.



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VENTURIMETER AND ORIFICE METER TEST RIG for engineering schools

VENTURIMETER AND ORIFICE METER TEST RIG, technical teaching equipment for engineering school.



Thank you
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