

### **Experiment No. 1**

**Title:**

**Study and trial on Pelton wheel.**

| <b>Batch</b>      | <b>Date of Experimentation</b> | <b>Date of Submission</b> |
|-------------------|--------------------------------|---------------------------|
| <b>Batch</b> ____ | ____/____/____                 | ____/____/____            |

**Objective:**

1. Study various parts of Pelton Wheel.
2. To determine constant head and constant speed characteristic of Pelton wheel

**Apparatus:**

1. Pelton Wheel test rig, Centrifugal pump set, sump tank, notch tank, turbine, piping to operate the turbine on closed circuit water circulating system
2. Digital RPM indicator, pressure gauge, flow control valve, mechanical loading with Spring balance

### **Theory:**

Hydraulic (or water) Turbines are the machines, which use the energy of water (Hydro – power) and convert it into Mechanical energy. Thus the turbine becomes the prime mover to run the electrical generators to produce the electricity, viz., hydroelectric power.

The Turbines are classified as impulse & reaction types. In impulse turbine, the head of water is completely converted into a jet, which impinges on the turbine runner, it is the pressure of the flowing water, which rotates the runner of the turbine. Of many types of

# Turbomachinery Lab Manual

**Kathleen Armour**



## **Turbomachinery Lab Manual:**

Technical Abstract Bulletin , Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office,1977

**Nuclear Science Abstracts** ,1975 FLUID MECHANICS RAJU, K. SRINIVASA,KUMAR, D. NAGESH,2020-07-01 Fluid

Mechanics has transformed from fundamental subject to application oriented subject Over the years numerous experts introduced number of books on the theme Majority of them are rather theoretical with numerical problems and derivations However due to increase in computational facilities and availability of MATLAB and equivalent software tools the subject is also transforming into computational perspective We firmly believe that this new dimension will greatly benefit present generation students The present book is an effort to tackle the subject in MATLAB environment and consists of 16 chapters The book can support undergraduate students in fluid mechanics and can also be referred to as a text reference book KEY FEATURES Explanation of Fluid Mechanics in MATLAB in structured and lucid manner 161 Example Problems supported by corresponding MATLAB codes compatible with 2016a version 162 Exercise Problems for reinforced learning 12 MP4 Videos for the demonstration of MATLAB codes for effective understanding while enhancing thinking ability of readers A Question Bank containing 261 Representative Questions and 120 Numerical Problems TARGET AUDIENCE Students of B E B Tech and AMIE Civil Mechanical and Chemical Engineering Useful to students preparing for GATE and UPSC examinations

Symposium Papers ,1993 Monthly Catalogue, United States Public Documents ,1985-07 **Scientific and**

**Technical Aerospace Reports** ,1995 **Monthly Catalog of United States Government Publications** ,1999

**Technical Reports Awareness Circular : TRAC.** ,1987-07 *The Shock and Vibration Digest* ,1981 *Government Reports Announcements & Index* ,1996-05 **Solar Energy Update** ,1983-12 **23rd Annual Conference on**

**Composites, Advanced Ceramics, Materials, and Structures - A, Volume 20, Issue 3** Ersan Ustundag,Gary S.

Fischman,2009-09-28 This volume is part of the Ceramic Engineering and Science Proceeding CESP series This series contains a collection of papers dealing with issues in both traditional ceramics i e glass whitewares refractories and porcelain enamel and advanced ceramics Topics covered in the area of advanced ceramic include bioceramics nanomaterials composites solid oxide fuel cells mechanical properties and structural design advanced ceramic coatings ceramic armor porous ceramics and more **IUTAM Symposium on Emerging Trends in Rotor Dynamics** K. Gupta,2011-01-06 Rotor

dynamics is an important branch of dynamics that deals with behavior of rotating machines ranging from very large systems like power plant rotors for example a turbogenerator to very small systems like a tiny dentist s drill with a variety of rotors such as pumps compressors steam gas turbines motors turbopumps etc as used for example in process industry falling in between The speeds of these rotors vary in a large range from a few hundred RPM to more than a hundred thousand RPM Complex systems of rotating shafts depending upon their specific requirements are supported on different types of bearings There are rolling element bearings various kinds of fluid film bearings foil and gas bearings magnetic bearings to name but a

few The present day rotors are much lighter handle a large amount of energy and fluid mass operate at much higher speeds and therefore are most susceptible to vibration and instability problems This have given rise to several interesting physical phenomena some of which are fairly well understood today while some are still the subject of continued investigation Research in rotor dynamics started more than one hundred years ago The progress of the research in the early years was slow However with the availability of larger computing power and versatile measurement technologies research in all aspects of rotor dynamics has accelerated over the past decades The demand from industry for light weight high performance and reliable rotor bearing systems is the driving force for research and new developments in the field of rotor dynamics The symposium proceedings contain papers on various important aspects of rotor dynamics such as modeling analytical computational and experimental methods developments in bearings dampers seals including magnetic bearings rub impact and foundation effects turbomachine blades active and passive vibration control strategies including control of instabilities nonlinear and parametric effects fault diagnostics and condition monitoring and cracked rotors This volume is of immense value to teachers researchers in educational institutes scientists researchers in R D laboratories and practising engineers in industry

**Government Reports Annual Index** ,1983      **Forthcoming Books** Rose Arny,1998-04      **Energy Research Abstracts** ,1990      *Industrial Heating* Yeshvant V. Deshmukh,2005-05-20 Industry relies on heating for a wide variety of processes involving a broad range of materials Each process and material requires heating methods suitable to its properties and the desired outcome Despite this the literature lacks a general reference on design techniques for heating especially for small and medium sized applications Industri

Paper ,2000      *Energy: a Continuing Bibliography with Indexes* ,1981

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