

Objective:

- To understand how Francis Turbine efficiency varies with load for a fixed guide vane position.
- To understand how Francis Turbine efficiency alters with guide vane position.

Apparatus required:

Francis turbine setup, Tachometer, Stopwatch

Theory:

The Francis turbine is a water turbine developed by James B. Francis .It is an inward-flow reaction turbine that combines radial and axial flow concepts. It converts potential energy of water into mechanical energy which is used to generate power. Advantage of Francis turbine is high speeds can be achieved with low heads.

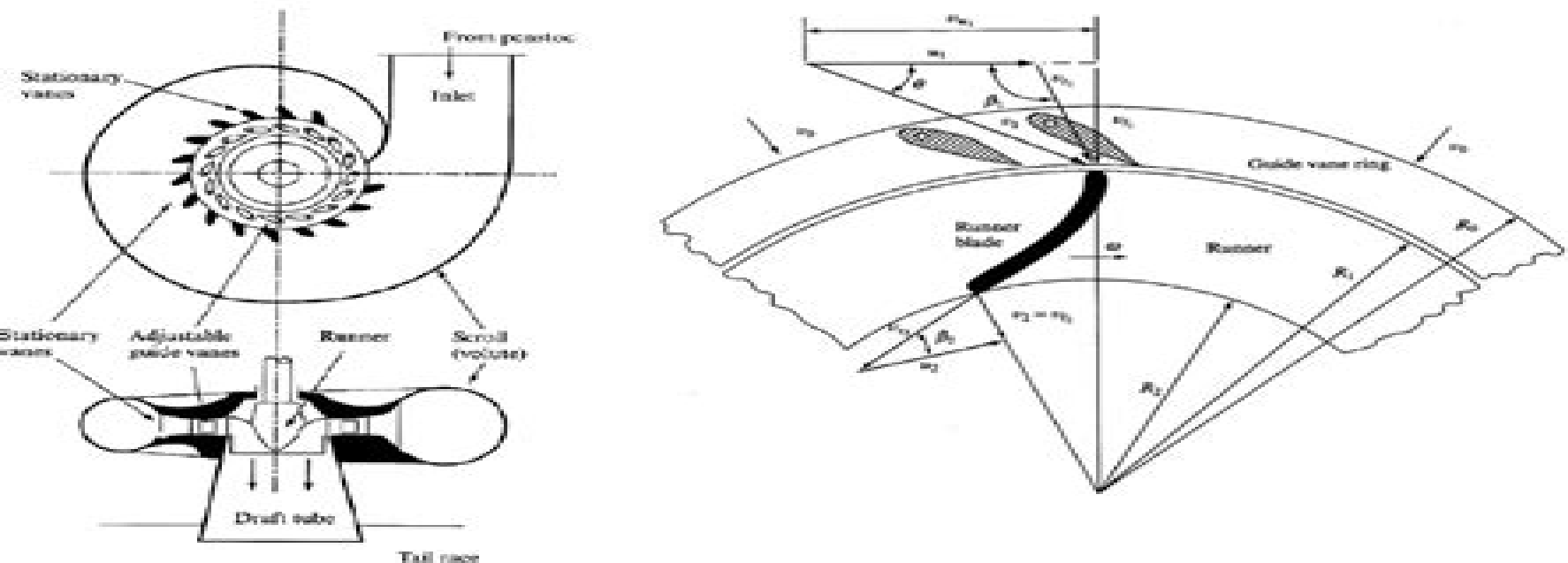


Figure 1 & 2- Schematic View and Velocity Diagram of Francis Turbine

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Y Pai



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Hydraulics S. K. Likhi, 1995 The Experiments Described Are Required To Be Performed By Students Of Diploma Courses For The Course Hydraulics And By Students Of Degree Courses For The Course Fluid Mechanics 1 The Manual Explains The Procedure For Performing The Experiment The Description Is In The Form Of A Detailed Laboratory Report It Covers The Handling Of Apparatus How To Take Observations And Present Results The Book Includes Tables And Graph Sheets Where Observations Are To Be Recorded And Results Plotted Students Are Required To Interpret The Results And Will Appreciate The Importance And Significance Of The Experiment To The Real Life Situation This Manual Will Save The Student The Bother Of Writing Out The Procedure Drawing Tables And Purchasing Loose Graph Sheets Including Log Log Graph Sheets For Pasting Into His Journal The Book Will Form A Complete And Lasting Record Of His Work It Will Cut Down The Time The Teacher Needs To Spend On Describing The Procedure The Manual Will Be A Great Help To Both Teachers And Students

Advanced Engineering for Processes and Technologies Azman Ismail, Muhamad Husaini Abu Bakar, Andreas Öchsner, 2019-01-14 This book presents various state of the art applications for the development of new materials and technologies discussing computer based engineering tools that are widely used in simulations evaluation of data and design processes For example modern joining technologies can be used to fabricate new compound or composite materials even those composed of dissimilar materials Such materials are often exposed to harsh environments and must possess specific properties Technologies in this context are mainly related to the transportation technologies in their wider sense i e automotive and marine technologies including ships amphibious vehicles docks offshore structures and robots This book highlights the importance the finite element and finite volume methods that are typically used in the context of engineering simulations

Fluid Mechanics and Hydraulic Machines (A Lab Manual) T.S. Desmukh, 2001 *Topics in Modal Analysis II, Volume 6* R. Allemang, J. De Clerck, C. Niezrecki, J.R. Blough, 2025-08-07 Topics in Modal Analysis II Volume 6 Proceedings of the 30th IMAC A Conference and Exposition on Structural Dynamics 2012 is the sixth volume of six from the Conference and brings together 65 contributions to this important area of research and engineering The collection presents early findings and case studies on fundamental and applied aspects of Structural Dynamics including papers on Aerospace Acoustics Energy Harvesting Shock and Vibration Finite Element Structural Health Monitoring Biodynamics Experimental Techniques Damage Detection Rotating Machinery Sports Equipment Dynamics Aircraft Aerospace

Who's who Among North American Authors, 1929 [Encyclopedia of Ocean Engineering](#) Weicheng Cui, Shixiao Fu, Zhiqiang Hu, 2022-06-29 This encyclopedia adopts a wider definition for the concept of ocean engineering Specifically it includes 1 offshore engineering fixed and floating offshore oil and gas platforms pipelines and risers cables and moorings buoy technology foundation engineering ocean mining marine and offshore renewable energy aquaculture engineering and subsea engineering 2 naval architecture ship and special marine vehicle design intact and damaged stability technology for energy

efficiency and green shipping ship production technology decommissioning and recycling 3 polar and Arctic Engineering ice mechanics ice structure interaction polar operations polar design environmental protection 4 underwater technologies AUV ROV design AUV ROV hydrodynamics maneuvering and control and underwater specific communicating and sensing systems for AUV ROVs It summarizes the A Z of the background and application knowledge of ocean engineering for use by ocean scientists and ocean engineers as well as nonspecialists such as engineers and scientists from all disciplines economists students and politicians Ocean engineering theories ocean devices and equipment ocean design and operation technologies are described by international experts many from industry and each entry offers an introduction and references for further study making current technology and operating practices available for future generations to learn from The book also furthers our understanding of the current state of the art leading to new and more efficient technologies with breakthroughs from new theory and materials As the land resources approach the exploitation limit ocean resources are becoming the next choice for the sustainable development As such ocean engineering is vital in the 21st century *The Publishers' Circular and Booksellers' Record* ,1918

Performance of DFIG and PMSG Wind Turbines Kenneth Okedu,2023-04-05 Due to environmental pollution and climate change the use of renewable energy sources as an alternative means of power generation is on the rise globally This is because of their clean nature which makes them ecofriendly with little or no pollution compared to the traditional fossil fuel power generation power plants Among the various renewable energy sources wind energy is one of the most widely employed due to its promising technology Wind turbine technologies could be classified into two groups as follows Fixed Speed Wind Turbines FSWTs and Variable Speed Wind Turbines VSWTs There have been tremendous improvements in wind turbine technology over the years from FSWTs to VSWTs as a result of fast innovations and advanced developments in power electronics Thus the VSWTs have better wind energy capture and conversion efficiencies less acoustic noise and mechanical stress and better power quality in power grids without support from external reactive power compensators due to the stochastic nature of wind energy The two most widely employed VSWTs in wind farm development are the Doubly Fed Induction Generator DFIG and the Permanent Magnet Synchronous Generator PMSG wind turbines In order to solve transient stability intricacies during power grid faults this book proposes different control strategies for the DFIG and PMSG wind turbines **Style Manual** United States. Government Printing Office,1953

LABORATORY MANUAL HYDRAULICS AND HYDRAULIC MACHINES R. V. RAIKAR,2012-09-27 This manual presents 31 laboratory tested experiments in hydraulics and hydraulic machines This manual is organized into two parts The first part equips the student with the basics of fluid properties flow properties various flow measuring devices and fundamentals of hydraulic machines The second part presents experiments to help students understand the basic concepts the phenomenon of flow through pipes and flow through open channels and the working principles of hydraulic machines For each experiment the apparatus required for conducting the experiment the probable experimental set up the theory behind

the experiment the experimental procedure and the method of presenting the experimental data are all explained Viva questions with answers are also given In addition the errors arising during recording of observations and various precautions to be taken during experimentation are explained with each experiment The manualis primarily designed for the undergraduate degree students and diploma students of civil engineering mechanical engineering and chemical engineering

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