

# Fluid Machinery & Steam Generator

## Francis turbine

- Area of flow  $A_{f1} = K \pi D_1 b_1$
- Discharge through the runner  $Q = A_{f1} V_{f1}$
- Hydraulic power  $[HP = \rho g Q H]_{\text{hy}}$
- Runner power when  $v_{w1}$  is in direction of  $u_1$   
 $R.P = \frac{\rho g Q}{g} [v_{w1} u_1 - v_{w2} u_2]$
- Runner power when  $v_{w1}$  is in opposite direction of  $u_2$   
 $R.P = \frac{\rho g Q}{g} [v_{w1} u_1 + v_{w2} u_2]$
- Hydraulic efficiency  $\eta_h = \frac{R.P}{HP} = \frac{v_{w1} u_1}{gH}$  L-RUN
- Mechanical efficiency  $\eta_{mech} = \frac{S.P}{R.P}$  M-S.P.
- Overall efficiency  $\eta_o = \eta_h \times \eta_{mech}$  O-S.P.
- Volumetric efficiency  $\eta_{vol} = \frac{Q}{Q + \Delta Q}$   
 where  $\Delta Q$  = leakage loss  
 $Q$  = discharge entering the turbine
- Degree of reaction (R) :  $R = 1 - \frac{v_2^2 - v_1^2}{2 v_{w1} u_1}$
- Efficiency of draft tube  $\eta_d = \frac{v_1^2 - v_2^2}{2 v_{w1} u_1} = \eta_f$
- Pelton wheel**
- Power available at inlet of vanes =  $\frac{\rho Q v^2}{2g}$
- Runner power  $R.P = \frac{\rho g Q}{g} [v_{w1} - v_{w2}] u$
- $(\eta_h)_{max} = 1 - k \cos \alpha$
- Blade efficiency  $\eta_{b, max} = \frac{v_1^2 - v_2^2}{v_1^2}$
- Specific speed of Turbine  $N_s = \frac{N \sqrt{P}}{H^{5/4}}$

## Model relationships for turbine / Cp

Capacity or flow  $Q$  constant,  $C_p$  constant

$$\left[ \frac{Q}{ND^3} \right]_1 = \left[ \frac{Q}{ND^3} \right]_2 \quad \left[ \frac{gH}{N^2 D^5} \right]_1 = \left[ \frac{gH}{N^2 D^5} \right]_2$$

Power  $P$  constant

$$\left[ \frac{P}{N^3 D^5} \right]_1 = \left[ \frac{P}{N^3 D^5} \right]_2$$

## Brayton cycle or Joule cycle:- [Gas P.P]

$$\eta = 1 - \frac{1}{(r_p)^{\gamma}}$$

$$T_2 = T_4 = \sqrt{T_{max} \cdot T_{min}}$$

$$(r_p)_{optimum} = \left( \frac{T_{max}}{T_{min}} \right)^{\frac{1}{\gamma-1}}$$

$$(r_p)_{optimum} = \sqrt{(r_p)_{max}}$$

$$(r_p)_{max} = \left( \frac{T_{max}}{T_{min}} \right)^{\frac{1}{\gamma-1}}$$

$$\text{Back work Ratio} = \frac{W_c}{W_T}$$

$$\text{Work Ratio} = \frac{W_{net}}{W_T} = \frac{W_T - W_c}{W_T} = 1 - \frac{W_c}{W_T}$$

## Rankine vapour power cycle (or) steam power cycle

$$\text{Specific steam consumption } SSC = \frac{3600}{W_{net}} \frac{\text{kg}}{\text{kwhr}}$$

$$\eta_{Rankine} = 1 - \frac{Q_{out}}{Q_{in}} = 1 - \frac{T_c}{T_h} = \frac{W_{net}}{Q_c} = \frac{Q_2 - Q_1}{Q_2} = 1 - \frac{Q_1}{Q_2}$$

## For regeneration in Rankine cycle

$$W_1 = (1-x)(h_1 - h_2) + (1-y)(h_1 - h_2)$$

$$W_2 = (1-x)(h_1 - h_2) + (1-y)(h_1 - h_2)$$

$$W_{net} = W_1 - W_2 = W_1$$

$$Q_2 = (1-x)(h_2 - h_3)$$

- Applying conservation of energy

# Mechanical Engineering Formula

**SA Adler**



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## **Table of Contents Mechanical Engineering Formula**

1. Understanding the eBook Mechanical Engineering Formula
  - The Rise of Digital Reading Mechanical Engineering Formula
  - Advantages of eBooks Over Traditional Books
2. Identifying Mechanical Engineering Formula
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Mechanical Engineering Formula
  - User-Friendly Interface
4. Exploring eBook Recommendations from Mechanical Engineering Formula
  - Personalized Recommendations
  - Mechanical Engineering Formula User Reviews and Ratings
  - Mechanical Engineering Formula and Bestseller Lists
5. Accessing Mechanical Engineering Formula Free and Paid eBooks
  - Mechanical Engineering Formula Public Domain eBooks

- Mechanical Engineering Formula eBook Subscription Services
- Mechanical Engineering Formula Budget-Friendly Options
- 6. Navigating Mechanical Engineering Formula eBook Formats
  - ePub, PDF, MOBI, and More
  - Mechanical Engineering Formula Compatibility with Devices
  - Mechanical Engineering Formula Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Mechanical Engineering Formula
  - Highlighting and Note-Taking Mechanical Engineering Formula
  - Interactive Elements Mechanical Engineering Formula
- 8. Staying Engaged with Mechanical Engineering Formula
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Mechanical Engineering Formula
- 9. Balancing eBooks and Physical Books Mechanical Engineering Formula
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Mechanical Engineering Formula
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Mechanical Engineering Formula
  - Setting Reading Goals Mechanical Engineering Formula
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mechanical Engineering Formula
  - Fact-Checking eBook Content of Mechanical Engineering Formula
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks

## 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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