

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
 $R.P = \frac{\rho g Q}{\rho} [v_{w1} u_1 - v_{w2} u_2]$
- Runner power when v_{w1} is in opposite direction of u_2
 $R.P = \frac{\rho g Q}{\rho} [v_{w1} u_1 + v_{w2} u_2]$
- Hydraulic efficiency $\eta_h = \frac{R.P}{HP} = \frac{v_{w1} u_1}{gH}$ L-R-L-R
- Mechanical efficiency $\eta_{mech} = \frac{S.P}{R.P}$ M-S-P
- Overall efficiency $\eta_o = \eta_h \times \eta_{mech}$ O-S-L-R
- Volumetric efficiency $\eta_{vol} = \frac{Q}{Q + \Delta Q}$
 where ΔQ = 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 $\eta_d = \frac{\frac{v_1^2 - v_2^2}{2g}}{\frac{v_1^2 - v_2^2}{2g} + h_f}$
- Pelton wheel**
- Power available at inlet of vanes = $\frac{\rho Q v^2}{2}$
- Runner power $R.P = \frac{\rho g Q}{\rho} [v_{w1} - v_{w2}] u$
- $(\eta_h)_{max} = \frac{1 - k \cos \alpha}{2}$
- 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, speed N 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:- [G.M.P.P]

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

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

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

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

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

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

Rankine vapour power cycle (or) steam power cycle

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

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

For regeneration in Rankine cycle

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

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

$$W = W_1 - W_2 = W_T$$

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

Applying conservation of energy

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N Noddings



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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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mittlerweile haben sich mehr als 2 700 kryptowährungen etabliert beinahe täglich werden neue coins gelistet

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web dass sich nun die Frage stellt welche Kryptowährung hat Zukunft ist angesichts dieser Verwerfungen normal immerhin ist

die zahl der handelbaren coins längst auf mehr als 20 000 angestiegen renditen erzielen investoren häufig mit überraschenden kandidaten doch auch die urgesteine der scene behalten ihre aktualität

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