

To calculate ρ_{air} use the following relation

$$\rho_{air} = \frac{1.01325 \times 10^5}{287 \times (273 + T_a)} \text{ in Kg/m}^3$$

3. Brake Horse Power (BHP) = $\frac{V \times I}{1000 \times \eta_g}$ in KW

Where,

V = Voltmeter reading

I = Ammeter reading

η_g = Efficiency of Generator = 0.75

4. Air - Fuel Ratio = $\frac{m_a}{m_f}$

5. Heat input Q = $m_f \times C V$ in kW

where m_f is the mass of fuel supplied in kg/s

C V is the calorific value of the fuel in kJ/kg

6. Specific fuel consumption (SFC) = $\frac{m_f \times 3600}{BP}$ in kg/kWhr

7. Volumetric efficiency $\eta_{vol} = \frac{\text{actual vol of air supplied } V_{act}}{\text{Theoretical air supply } V_{th}} \times 100$

Theoretical air supply V_{th} = Swept volume = $L \times A \times N$ in m^3/min

where $A = \pi D^2/4$ in m^2 L and D are the stroke and bore of the engine.

V_{act} = Actual Volume of air supplied in m^3/min

8. Brake thermal efficiency $\eta_{br} = \frac{BP}{\text{Heat input Q}} \times 100$

HEAT BALANCE SHEET:

| Heat input | KW | in % | Heat Output | KW | in % |
|---------------------------|----|------|---|----|------|
| Heat supplied by the fuel | | | a) Heat equivalent to BP b) Heat carried by exhaust gases = $m_g \times C_{pg} (T_g - T_a)$ $m_g = m_a + m_f$ c) Heat unaccountable 1-(a+b) | | |
| Total input | | | Total output | | |

Specific heat of air = $C_{pg} = 1.005 \text{ KJ/Kg}^\circ\text{C}$

m_a = Mass of air supplied in Kg/s

m_f = mass of fuel supplied in Kg/s

Energy Conversion Engineering Lab

JL Elias



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1. Understanding the eBook Energy Conversion Engineering Lab
 - The Rise of Digital Reading Energy Conversion Engineering Lab
 - Advantages of eBooks Over Traditional Books
2. Identifying Energy Conversion Engineering Lab
 - 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 Energy Conversion Engineering Lab
 - User-Friendly Interface
4. Exploring eBook Recommendations from Energy Conversion Engineering Lab
 - Personalized Recommendations
 - Energy Conversion Engineering Lab User Reviews and Ratings
 - Energy Conversion Engineering Lab and Bestseller Lists
5. Accessing Energy Conversion Engineering Lab Free and Paid eBooks

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