

To calculate  $\rho_{air}$  use the following relation

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

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

Where,

V = Voltmeter reading

I = Ammeter reading

$\eta_g$  = Efficiency of Generator = 0.75

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

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

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

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

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

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

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

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

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

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

#### 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 Manual

**Kathleen Armour**



## **Energy Conversion Engineering Lab Manual:**

## Whispering the Strategies of Language: An Emotional Quest through **Energy Conversion Engineering Lab Manual**

In a digitally-driven world wherever displays reign great and immediate interaction drowns out the subtleties of language, the profound techniques and emotional nuances hidden within words often move unheard. However, nestled within the pages of **Energy Conversion Engineering Lab Manual** a interesting literary treasure sporting with natural feelings, lies an exceptional quest waiting to be undertaken. Penned by a skilled wordsmith, that marvelous opus invites viewers on an introspective trip, softly unraveling the veiled truths and profound influence resonating within the very cloth of each and every word. Within the emotional depths of this poignant review, we can embark upon a honest exploration of the book is core styles, dissect its charming writing type, and succumb to the effective resonance it evokes deep within the recesses of readers hearts.

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