

# Thermal Engineering II

## UNIT 5

### UNIT – IV : CONVENTIONAL SOURCES OF ENERGY AND NUCLEAR POWER PLANT

Air Compressors-uses of compressed air – classifications of Air compressor – reciprocating compressor - single stage reciprocating compressor – compression processes – power required to drive the compressor ( Neglecting clearance Volume) – clearance volume and its effects – volumetric efficiency –power required to drive the compressor with clearance volume – problems – multi stage compression – merits and demerits - work input – ratio of cylinder diameters for minimum work input. Rotary compressors – Roots blower - vane blowers – centrifugal and axial flow air compressors.

Gas turbines – uses - classifications – merits and demerits of gas turbines -constant pressure combustion gas turbine – gas turbine with – intercooler –reheater - regenerator -effects – closed cycle gas turbines - merits and demerits of open and closed cycle gas turbines

Jet propulsion -turbojet engines– merits and demerits – turbo propeller engines –

# Thermal Engineering 2 Notes

**Sir Norman Lockyer**



## **Thermal Engineering 2 Notes:**

## Embracing the Song of Appearance: An Psychological Symphony within **Thermal Engineering 2 Notes**

In a world used by monitors and the ceaseless chatter of instantaneous conversation, the melodic elegance and mental symphony produced by the written word usually fade in to the backdrop, eclipsed by the constant noise and distractions that permeate our lives. But, nestled within the pages of **Thermal Engineering 2 Notes** an enchanting fictional prize brimming with organic feelings, lies an immersive symphony waiting to be embraced. Crafted by an elegant musician of language, this interesting masterpiece conducts viewers on an emotional trip, well unraveling the hidden songs and profound affect resonating within each carefully crafted phrase. Within the depths of the poignant assessment, we will explore the book is key harmonies, analyze their enthralling publishing fashion, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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