

# 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

**S Ben Porath**



## **Thermal Engineering 2 Notes:**

*Revised Steam and Gas Engineering Laboratory Notes* W. Black, 1916      **Refrigerating Engineering** ,1921 Vols 1 17  
include Proceedings of the 10th 24th 1914 28 annual meeting of the society      Thermal Engineering ,1995      *Monthly  
Catalog of United States Government Publications* United States. Superintendent of Documents, 1979      *Compact Heat  
Exchangers for Energy Transfer Intensification* Jiri Jaromir Klemes, Olga Arsenyeva, Petro Kapustenko, Leonid  
Tovazhnyanskyy, 2015-12-16 *Compact Heat Exchangers for Energy Transfer Intensification Low Grade Heat and Fouling  
Mitigation* provides theoretical and experimental background on heat transfer intensification in modern heat exchangers  
Emphasizing applications in complex heat recovery systems for the process industries this book Covers various issues related  
to low grade heat      Power Notes ,1919      *Applied Mechanics Reviews* ,1971      *Verbal Notes and Sketches on Marine  
Diesel Oil Engines* John William Major Sothorn, 1925      **Power Notes for Steam, Mechanical and Consulting Engineers**  
,1926      **Encyclopedia of Renewable and Sustainable Materials** ,2020-01-09 *Encyclopedia of Renewable and  
Sustainable Materials* Five Volume Set provides a comprehensive overview covering research and development on all aspects  
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the automotive sector energy textiles and others can create markets for agricultural products and additional revenue streams  
for farmers as well as significantly reduce carbon dioxide CO2 emissions manufacturing energy requirements manufacturing  
costs and waste This book provides researchers students and professionals in materials science and engineering with tactics  
and information as they face increasingly complex challenges around the development selection and use of construction and  
manufacturing materials Covers a broad range of topics not available elsewhere in one resource Arranged thematically for  
ease of navigation Discusses key features on processing use application and the environmental benefits of renewable and  
sustainable materials Contains a special focus on sustainability that will lead to the reduction of carbon emissions and  
enhance protection of the natural environment with regard to sustainable materials      Small and Medium Power Reactors  
,1961      *Industrial Engineering and the Engineering Digest* ,1911      **Engineering Index Annual** ,1930      *Industrial  
Engineering* ,1911      *Journal of the American Society of Mechanical Engineers* American Society of Mechanical  
Engineers, 1917      **Engineering and Mining Journal** ,1906      **Engineering News-record** ,1898      **Nature** Sir Norman  
Lockyer, 1920      **Subject Index to Periodicals** ,1924      **The Subject Index to Periodicals** ,1928

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