Report

1. Find out the optimum reheat pressure of simple ideal Rankine cycle working between boiler pressure of 180 bar and condenser pressure of 0.05 bar if the maximum temperature is 500 degrees and keeping the operation of the turbine safe.
2. Find out the contribution of the second and third rows to that of the total energy produced by three-row velocity compounded impulse turbine if all blades are symmetry, frictionless and the angle of absolute velocity at the exit of the last row is 90 degrees
3. Find the optimum blade speed ratio and the maximum efficiency of three-row velocity compounded assuming symmetry and frictionless blades
4. Describe the operation of reaction turbine blades and explain the differences between pure impulse and reaction blades from the various points of view such as shape, location, efficiency, etc.

Delivery Deadline is 27th of December 2018 at 12:00 noon

Delivery Place: Thermodynamics Lab. – Mechanical Building

Contact Person: Mr. Adel