
An ideal diesel engine uses air as the working fluid. The state of the air at the beginning of the compression process is 95 kPa and 20°C. If the maximum temperature of the cycle is not to exceed 2200 K, determine (a) the thermal efficiency, (b) the mean effective pressure and (c) w_{net} as a function of compression ratio, r . Vary the compression ratio from 14 to 24 in steps of 2 (e.g., 14, 16, 18, etc.)

Instead of isentropic expansion, use polytropic expansion with a polytropic exponent of $n = 1.35$. Do not use constant specific heats. Use function calls to get the needed values.

Plot the net work output, mean effective pressure and thermal efficiency as a function of compression ratio.

Print out and submit:

1. Your formatted equations.
2. Solution table with values of r , efficiency (%), MEP (kPa) and w_{net} (kJ/kg).
3. Plots:
 - a. w_{net} (kJ/kg) vs r
 - b. Thermal efficiency (%) vs r
 - c. MEP (kPa) vs r

Please be sure to include your name and a brief problem statement.

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