

國立中正大學九十四學年度碩士班招生考試試題

系所別：機械工程學系-丙組

科目：熱力學

第 2 節

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assuming process from state 1 to state 2 is isentropic process and

specific heat ratio $\gamma \equiv \frac{C_P}{C_V} = 1.4$, (5%)

(c). Given state 4 at $T_4 = 500\text{K}$, find P_4 , P_3 , T_3 , (5%)

(d). Find Thermal efficiency and net work output . (10%)