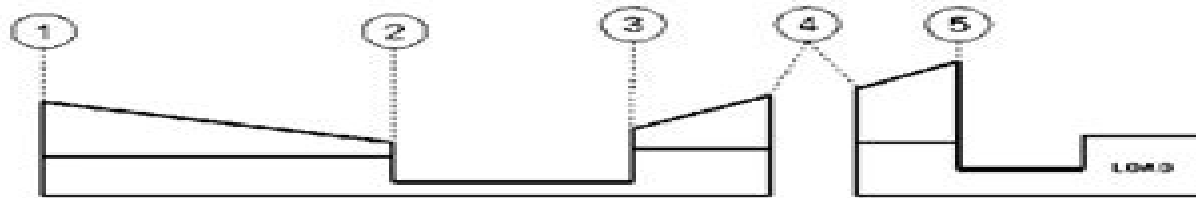


Problem 2.2



$$T_{02} - T_a = \frac{T_a}{\eta_c} \left[\left(\frac{P_{02}}{P_a} \right)^{\frac{\gamma-1}{\gamma}} - 1 \right]$$

$$= \frac{288}{0.82} \left[(11)^{\frac{1}{3.5}} - 1 \right] = 345.598 \text{ K}$$

Compressor and turbine work required per unit mass flow is:

$$W_{in} = \frac{C_{ps}(T_{02} - T_a)}{\eta_m} = C_{pt}(T_{03} - T_{04})$$

$$T_{03} - T_{04} = \frac{1.005 \times 345.598}{0.98 \times 1.147} = 308.992 \text{ K}$$

$$T_{04} = 1150 - 309 = 841 \text{ K}$$

$$T_{03} - T_{04} = \eta_t T_{03} \left[1 - \left(\frac{1}{P_{03}/P_{04}} \right)^{\frac{\gamma-1}{\gamma}} \right]$$

$$308.992 = 0.87 \times 1150 \left[1 - \left(\frac{1}{P_{03}/P_{04}} \right)^{\frac{1}{4}} \right]$$

$$\frac{P_{03}}{P_{04}} = 4.382$$

$$P_{03} = 11.0 - 0.4 = 10.6 \text{ bar}$$

$$P_{04} = 2.418 \text{ bar} \quad , \quad P_{03} = P_a$$

$$T_{04} - T_{02} = 0.89 \times 841 \left[1 - \left(\frac{1}{2.418} \right)^{\frac{1}{4}} \right] = 148.254 \text{ K}$$

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Katrin Zwirgmaier



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Gas Turbine Theory H. I. H. Saravanamuttoo, Gordon Frederick Crichton Rogers, Henry Cohen, 2001 **Gas Turbine Theory** Cohen, 2001-09 Gas Turbine Theory Henry Cohen, Gordon Frederick Crichton Rogers, H. I. H. Saravanamuttoo, 1996 From the early days of the gas turbine as a prime mover to the current interest in combined heat and power generation and the need to reduce emissions this volume is suitable as a course book for undergraduates and graduates *A Brief Introduction to Fluid Mechanics* Donald F. Young, Bruce R. Munson, Theodore H. Okiishi, Wade W. Huebsch, 2010-12-21 A Brief Introduction to Fluid Mechanics 5th Edition is designed to cover the standard topics in a basic fluid mechanics course in a streamlined manner that meets the learning needs of today's student better than the dense encyclopedic manner of traditional texts This approach helps students connect the math and theory to the physical world and practical applications and apply these connections to solving problems The text lucidly presents basic analysis techniques and addresses practical concerns and applications such as pipe flow open channel flow flow measurement and drag and lift It offers a strong visual approach with photos illustrations and videos included in the text examples and homework problems to emphasize the practical application of fluid mechanics principles Modeling, Analysis and Optimization of Process and Energy Systems F. Carl Knopf, 2011-12-14 Energy costs impact the profitability of virtually all industrial processes Stressing how plants use power and how that power is actually generated this book provides a clear and simple way to understand the energy usage in various processes as well as methods for optimizing these processes using practical hands on simulations and a unique approach that details solved problems utilizing actual plant data Invaluable information offers a complete energy saving approach essential for both the chemical and mechanical engineering curricula as well as for practicing engineers **Paper**, 1998 Forthcoming Books Rose Arny, 2001-06 Engineering, 1974 **Gas turbine theory. [By] H. Cohen ... G.F.C. Rogers ... H.I.H. Saravanamuttoo. (Second edition.).** Henry COHEN (Fellow and Lecturer in Engineering, Queens' College, University of Cambridge.), 1972 **Gas Turbine Theory** Henri Cohen, H. I. H. Saravanamuttoo, Gordon Frederick Crichton Rogers, Paul V. Straznicki, Andrew Nix, 2017 Gas Turbine Theory H. I. H. Saravanamuttoo, G. F. C. Rogers, Henry Cohen, Paul Straznicki, Andrew Nix, 2017 Gas Turbine Theory is the classic course text on gas turbines suitable for both undergraduate and graduate students of mechanical and aeronautical engineering This new seventh edition will also continue to be a valuable reference for practising gas turbine engineers *The British National Bibliography* Arthur James Wells, 1996 **Gas Turbine Theory** H. Cohen, G.F.C. Rogers, H.I.H. Saravanamuttoo, 1995 **American Scientist**, 1942 **Gas Turbine Theory** Henry Cohen, 1965 *Gas Turbine Theory* H. Cohen, 1999 **Gas Turbine Theory** Henry Cohen, H. I. H. Saravanamuttoo, G. F. Rogers, 1979-04-01 **Gas Turbine Theory** Henry COHEN (Fellow and Lecturer in Engineering, Queens' College, University of Cambridge, and ROGERS (Gordon Frederick Crichton)), 1951 **International Aerospace Abstracts**, 1975 Gas Turbine Theory H. I. H. Saravanamuttoo, 2009 In

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