

PROBLEM 9.6

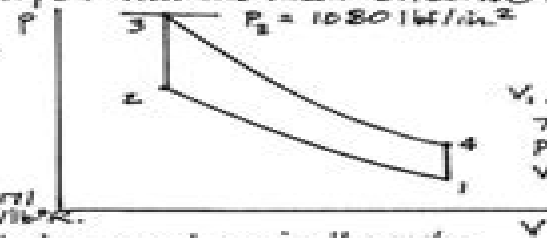
KNOWN: A four-cylinder, four-stroke engine operates at a known RPM. The processes in each cylinder are modeled as a cold air-standard Otto cycle with a specified state at the beginning of compression, a known compression ratio, and a specified maximum cycle pressure.

END: Determine the power developed and the mean effective pressure.

SCHEMATIC & GIVEN DATA:

①

Four-cylinder
Four-stroke
2800 RPM



$V_1/V_2 = 10$
 $T_1 = 80^\circ\text{F} = 540^\circ\text{R}$
 $P_1 = 14.7 \text{ lbf/in}^2$
 $V_1 = 0.0196 \text{ ft}^3$

ENGINEERING MODEL: See Example 9.1. Also, $k = 1.4$ and $c_v = 0.171 \text{ Btu/lb}\cdot^\circ\text{R}$.

ANALYSIS: First, determine each temperature in the cycle.

State 2: Using Eq. 9.6, $T_2 = (V_1/V_2)^{k-1} T_1 = (10)^{0.4} (540^\circ\text{R}) = 1356.4^\circ\text{R}$

Also, $P_2 = (V_1/V_2)^k P_1 = (10)^{1.4} (14.7) = 369.2 \text{ lbf/in}^2$

State 3: $V_3 = V_2 \Rightarrow T_3 = (P_3/P_2) T_2 = (1080/369.2)(1356.4) = 3967.8^\circ\text{R}$

State 4: $T_4 = (V_3/V_4)^{k-1} T_4 = (1/10)^{0.4} (3967.8) = 1579.6^\circ\text{R}$

To get the power, first determine the net work per cycle. The mass in the cylinder is

$$m = \frac{P_1 V_1}{RT_1} = \frac{(14.7 \text{ lbf/in}^2)(0.0196 \text{ ft}^3)}{\left(\frac{1545 \text{ ft}\cdot\text{lbf}}{28.97 \text{ lb}\cdot^\circ\text{R}}\right)(540^\circ\text{R})} \left| \frac{144 \text{ in}^2}{1 \text{ ft}^2} \right| = 0.001441 \text{ lb}$$

$$W_{\text{cycle}} = W_{12} + W_{34}$$

$$= m c_v [(T_1 - T_2) + (T_3 - T_4)]$$

$$= (0.001441 \text{ lb})(0.171 \frac{\text{Btu}}{\text{lb}\cdot^\circ\text{R}}) [(540 - 1356.4) + (3967.8 - 1579.6)]^\circ\text{R}$$

$$= 0.3873 \text{ Btu/cycle}$$

$$\dot{W}_{\text{net}} = (4 \text{ cyl}) \left(\frac{2800 \text{ cycle}}{2 \text{ min}} \right) (0.3873 \text{ Btu/cycle}) \left| \frac{60 \text{ min}}{1 \text{ h}} \right| \left| \frac{1 \text{ hp}}{2545 \text{ Btu/h}} \right|$$

$$= 51.1 \text{ hp} \leftarrow \dot{W}_{\text{net}}$$

The mean effective pressure is

$$mep = \frac{W_{\text{cycle}}}{V_1 - V_2} = \frac{W_{\text{cycle}}}{V_1 (1 - V_2/V_1)}$$

$$= \frac{0.3873 \text{ Btu}}{(0.0196 \text{ ft}^3)(1 - 0.1)} \left| \frac{7.78 \text{ ft}\cdot\text{lbf}}{1 \text{ Btu}} \right| \left| \frac{1 \text{ ft}^2}{144 \text{ in}^2} \right| = 118.6 \text{ lbf/in}^2 \leftarrow mep$$

9.6 A four-cylinder, four-stroke internal combustion engine operates at 2800 RPM. The processes within each cylinder are modeled as an air-standard Otto cycle with a pressure of 14.7 lbf/in.², a temperature of 80°F, and a volume of 0.0196 ft³ at the beginning of compression. The compression ratio is 10, and maximum pressure in the cycle is 1080 lbf/in.². Determine, using a cold air-standard analysis with $k = 1.4$, the power developed by the engine, in horsepower, and the mean effective pressure, in lbf/in.²

Otto Cycle Problems And Solutions

Ahmad A. Kamal



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Problems and Solutions in Thermal Engineering Shiv Kumar, 2023-07-15 This book is a collection of over 225 multiple choice type questions MCQs and more than 40 practice exam questions with solutions This book complements a 2 volume textbook set titled Thermal Engineering by the same author The answers are adequately supported by well illustrated diagrams wherever necessary for better understanding of the concepts The book also included steam tables as an appendix to aid in problem solving This book proves useful for undergraduate students of mechanical engineering and related disciplines The book is used in conjunction with the author's textbook set on thermal engineering or as a supplement to other core textbooks and lecture materials It is used to support classroom teaching or as a self study guide The problem solution format also proves useful for students and professionals involved in exam prep for graduate university entrance tests and professional certifications

A Practical Treatise on the 'Otto' Cycle Gas Engine William Norris, 1896 *Princeton Problems in Physics with Solutions* Nathan Newbury, Mark Newman, 2015-03-25 Aimed at helping the physics student to develop a solid grasp of basic graduate level material this book presents worked solutions to a wide range of informative problems These problems have been culled from the preliminary and general examinations created by the physics department at Princeton University for its graduate program The authors all students who have successfully completed the examinations selected these problems on the basis of usefulness interest and originality and have provided highly detailed solutions to each one Their book will be a valuable resource not only to other students but to college physics teachers as well The first four chapters pose problems in the areas of mechanics electricity and magnetism quantum mechanics and thermodynamics and statistical mechanics thereby serving as a review of material typically covered in undergraduate courses Later chapters deal with material new to most first year graduate students challenging them on such topics as condensed matter relativity and astrophysics nuclear physics elementary particles and atomic and general physics

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Council of Examiners for Engineering and Surveying,2003 **The Heat Engine Problem ...** Charles Edward Lucke,1902

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