# Chapter 9 GAS POWER CYCLES

#### Actual and Ideal Cycles, Carnot cycle, Air-Standard Assumptions

9-1C The Carnot cycle is not suitable as an ideal cycle for all power producing devices because it cannot be approximated using the hardware of actual power producing devices.

9-2C It is less than the thermal efficiency of a Carnet cycle.

9-3C It represents the net work on both diagrams.

9-4C The cold air standard assumptions involves the additional assumption that air can be treated as an ideal gas with constant specific heats at room temperature.

9-5C. Under the air standard assumptions, the combustion process is modeled as a heat addition process, and the exhaust process as a heat rejection process.

9-6C The air standard assumptions are: (1) the working fluid is air which behaves as an ideal gas, (2) all the processes are internally reversible, (3) the combustion process is replaced by the heat addition process, and (4) the exhaust process is replaced by the heat rejection process which returns the working fluid to its original state.

9-7C The clearance volume is the minimum volume formed in the cylinder whereas the displacement volume is the volume displaced by the piston as the piston moves between the top dead center and the bottom dead center.

9-8C It is the ratio of the maximum to minimum volumes in the cylinder.

9-9C The MEP is the fictitious pressure which, if acted on the piston during the entire power stroke, would produce the same amount of net work as that produced during the actual cycle.

9-10C Yes.

9-HC Assuming no accumulation of carbon deposits on the piston face, the compression ratio will remain the same (otherwise it will increase). The mean effective pressure, on the other hand, will decrease as a car gets older as a result of wear and tear.

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**Lingjun Ying** 

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Graphical Thermodynamics and Ideal Gas Power Cycles Mufid I. Hilal,2017-07-12 In this book an almost new approach to modern thermodynamics has been applied One or more useful qualitative discussion statements have been extracted from each equation These and other important statements were numbered and their titles were situated in an index titled Hilal and Others statements definitions and rules This ensures very quick obtaining of the required statements rules definitions equations and their theoretical base that will ease readers qualitative discussions and calculations

Aero Digest ,1950

The Michigan Technic ,1934 Flight Mechanics Modeling and Analysis Jitendra R. Raol, Jatinder Singh, 2023-03-31 Flight Mechanics Modeling and Analysis comprehensively covers flight mechanics and flight dynamics using a systems approach This book focuses on applied mathematics and control theory in its discussion of flight mechanics to build a strong foundation for solving design and control problems in the areas of flight simulation and flight data analysis The second edition has been expanded to include two new chapters and coverage of aeroservoelastic topics and engineering mechanics presenting more concepts of flight control and aircraft parameter estimation This book is intended for senior undergraduate aerospace students taking Aircraft Mechanics Flight Dynamics Controls and Flight Mechanics courses It will also be of interest to research students and R D project scientists of the same disciplines Including end of chapter exercises and illustrative examples with a MATLAB based approach this book also includes a Solutions Manual and Figure Slides for adopting instructors Features Covers flight mechanics flight simulation flight testing flight control and aeroservoelasticity Features artificial neural network and fuzzy logic based aspects in modeling and analysis of flight mechanics systems aircraft parameter estimation and reconfiguration of control Focuses on a systems based approach Includes two new chapters numerical simulation examples with MATLAB based implementations and end of chapter exercises Includes a Solutions Manual and Figure Slides for adopting instructors Flying ,1949 Introduction to Aircraft Performance, Selection, and <u>Design</u> Francis J. Hale, 1984-03-20 A self contained in depth treatment of aircraft performance designed for a first course in aeronautical or aerospace engineering for undergraduate engineers Provides an understanding of why conventional aircraft look and fly the way they do This well written text covers turbofan and turboprop propulsion subjects often avoided in other texts New to the text is the treatment of wind effects on aircraft Includes illustrative examples and references to practical piloting procedures and the significance of parameters National Aeronautics ,1945 The Journal of the Engineering Institute of Canada Engineering Institute of Canada, 1947 California Future Farmer ,1938

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