

APPLIED THERMODYNAMICS

TUTORIAL 2

GAS COMPRESSORS

In order to complete this tutorial you should be familiar with gas laws and polytropic gas processes.

You will study the principles of reciprocating compressors in detail and some principles of rotary compressors. On completion you should be able to do the following.

- Describe the working principles of reciprocating compressors.
- Define and calculate swept volume.
- Define and calculate volumetric efficiency.
- Define and calculate isothermal efficiency.
- Define and calculate indicated power.
- State the benefits of cooling.
- Calculate the heat rejected through cooling.
- Define and calculate the interstage pressures for multiple compressors.
- Define polytropic efficiency.

Let's start by considering the general use of compressed air.

Applied Thermodynamics Tutorial 2 Gas Compressors Study

Peipei Pang



Applied Thermodynamics Tutorial 2 Gas Compressors Study:

Journal of Electricity, Power, and Gas, 1911 **SAE Aerospace Applied Thermodynamics Manual** Society of Automotive Engineers. Committee AC-9, Aircraft Environmental Systems, 1969 **Elements of Heat-power Engineering: Thermodynamics and prime movers** Clarence Floyd Hirshfeld, William Nichols Barnard, Frank Oakes Ellenwood, 1926

Bulletin of the Department of Education Massachusetts. Department of Education. Department of University Extension, 1916 Bulletin Massachusetts. Board of education. Dept. of university extension, 1921 **Heat-power Engineering** William Nichols Barnard, Frank Oakes Ellenwood, Clarence Floyd Hirshfeld, 1926 **Applied Thermodynamics Laboratories** Institution of Mechanical Engineers (Great Britain), Unesco, 1972 **Journal of Electricity**, 1911 **Applied Mechanics Reviews**, 1969 *Scientific and Technical Aerospace Reports*, 1989 **New Zealand Engineering**, 1954 *An Introductory Guide to EC Competition Law and Practice* Valentine Korah, 1994

Catalogue Tufts University, 1913 *Bulletin* Tufts University, 1914 **Industrial Refrigeration**, 1925 **Ice and Refrigeration**, 1918 Electrical West, 1911 Scientific, Medical, and Technical Books Published in the United States of America, 1930-1944 Reginald Robert Hawkins, 1950 Pure and Applied Science Books, 1876-1982, 1982 Over 220 000 entries representing some 56 000 Library of Congress subject headings Covers all disciplines of science and technology e g engineering agriculture and domestic arts Also contains at least 5000 titles published before 1876 Has many applications in libraries information centers and other organizations concerned with scientific and technological literature Subject index contains main listing of entries Each entry gives cataloging as prepared by the Library of Congress Author title indexes

Catalogue and Circular (1878/79, 1884/85 "Circular") of the Illinois Industrial University (later "of the University of Illinois") University of Illinois (Urbana-Champaign campus), 1901

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