SIMULATION OF THERMODYNAMICS CYCLES ON A COMPUTER

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Project Report
Submitted to

the Department of Mechanical Engineering
of the Higher Technical Institute

Nicosia - Cyprus

in practical fulfillment of the requirements
for the Diploma of

TECHNICIAN ENGINEER

in

MECHANICAL ENGINEERING

June 1994

HIGHER TECHNICAL INSTITUTE
PROJECT NO. 2356

Acknowledgments:

I would like to express my thanks to Mr. P Eleftheriou, my project supervisor, for his assistance in carrying out this project work.

Summary:

Simulation of Thermodynamics
cycles on a computer

The analysis of the project was based on the following objectives:

a) Analysing the most common thermodynamics and refrigeration cycles

b) Creating a computer program for analysing the chosen cycles

c) the program must be suitable for educational

The chosen cycles are:

Carnot, Rankine, Otto, Diesel, Brayton, Mixed

The theory of the cycles was analysed and also a variation of some of the above cycles were discussed too.

The program was chosen to be written using the Pascal language, because of the advantage that the language can give to programmer.

The project as a whole will be very helpful to the mechanical students because will cover theory of the cycles and will include an instruction - manual of the program.

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