

"DESIGN OF A PRESSURESTAT"

Project Report submitted by

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ABSTRACT

The aim of this project is to design a pressure-stat, i.e. an on-off pressure controller.

The special requirements governing such a task, in combination with the fact that there are no specialists on this subject in Cyprus, made this project difficult enough. The hardwork and study, however, together with valuable assistance of engineers helped me to approach the task with precise details and specifications.

In general terms, this project deals with control and instrumentation theory needed to design a pressure-stat of certain specifications. It contains relevant information and design specifications - calculations, all made in accordance to B.S's and SI units. Also the various selections of items were made from the catalogs of Robertshaw Co. (bellows) and Lee Co. (springs).

The book is a study of the creativity and decision making processes which mechanical engineers use in the formulation of plans. It is illustrated by numerous clear diagrams, which are adequately explained where appropriate. The whole project is divided into 4 chapters (as many as the design's phases) each chapter being fully explained in the foregoing contents. I wish to encourage the user and furthermore my examiners to send me their comments and suggestions of improvements. This will help me to improve my knowledge and design, so that my next approach in the field, would be even more precise and sophisticated.

C O N T E N T S

	PAGE
<u>Abstract</u>	
<u>Acknowledgements</u>	
<u>List of Symbols</u>	
<u>CHAPTER 1 (Needs Analysis Phase)</u>	1.
1.1 RECOGNITION OF NEED	2.
1.2 INFORMATION SEARCH	3.
1.2.1. Pressure Definition	3.
1.2.2. Absolute and Differential Pressure Measurement	4.
1.2.3. Units	5.
1.2.4. What is a pressure-stat	6.
1.3 DEFINITION OF PROBLEM	11.
<u>CHAPTER 2 (Creativity Phase)</u>	13.
2.1 INTRODUCTION	14.
2.2 SEARCH	16.
2.3 THE MAIN IDEA	18.
2.4 CREATIVITY	19.
2.5 THINK OF SOME OTHER IDEAS	23.
<u>CHAPTER 3 (Decision Making Phase)</u>	29.
3.1 INTRODUCTION	30.
3.2 DECISION MAKING	31.
3.2.1. Cost Benefit Comparison	33.
3.3 THE SENSOR ASSEMBLY	35.
3.3.1. Differential	37.
3.3.2. Creativity	39.
3.3.3. Decision Making	41.

CHAPTER 4 (Optimization Phase)	44.
4.1 DESIGN SPECIFICATIONS	45.
4.2 SYNTHESIS-ANALYSIS	46.
4.2.1. Bellows Characteristics	46.
4.2.2. Bellows Materials	48.
4.2.3. Beryllium Copper One-Ply	50.
4.2.4. Service Life	52.
4.2.5. Assembly Techniques	53.
4.2.6. The Spring	55.
4.2.7. The switch	65.
4.3 OPTIMIZATION	66.
4.4 EVALUATION-COST ANALYSIS (PRESENTATION)	67.
BIBLIOGRAPHY	
APPENDIX	