HIGHER TECHNICAL INSTITUTE

ELECTRICAL ENGINEERING DEPARTMENT

DIPLOMA PROJECT

DEVELOPMENT OF A SEQUENCE CONTROL SCHEME OF A CHARCOAL MACHINE USING PROGRAMMABLE LOGIC CONTROLLER

E.1056

CHADJIODYSSEOS CHRISTODOULOS

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SUMMARY

Title: Development of a Sequence Control Scheme of a charcoal machine using a PLC.

Author: Chadjiodysseos Christodoulos.

The purpose of this project is to provide information about the Programmable Logic Controllers through which someone can understand and become familiar with the capabilities of the PLC's.

In the various chapters of this book, a description of the PLC is given and also all the information about historical development, advantages and disadvantages of the use of PLC's, applications of these controllers and also comparison between PLC's and other control systems. Also a description of the "Ladder Language" used to program the PLC is given so that the programming capabilities of this language are investigated.

To understand better the functions, the characteristics and the capabilities of the PLC an application program is designed for a charcoal manufacturing machine. In the book you can find the "Ladder Diagram" for this as well as a program analysis and other useful information.

Finally costing for the PLC-based solution for the specific problem will be provided as well as a comparison between the costs of the particular system and other conventional methods.

CONTENTS

Chapter 4: An Application Scheme

Chapter 5: Another approach for the same application

Chapter 6: Costing