# STRUCTURAL DESIGN OF TWO-STOREY HOUSE

by SPYROY SPYROS

Project Report
Submitted to
the Department of Civil Engineering
of the Higher Technical Institute
Nicosia Cyprus
in partial fulfilment of the requirements
of the diploma of
TECHNICAL ENGINEER

in
CIVIL ENGINEERING

June 1992

#### **ACKNOWLEDGEMENTS**

I would like to express my gratitude to my supervisor Mr. Demetris Andreou, Lecturer of the Higher Technical Institute, for the help and guidance he gave me throughout the project period and to thank all those who have helped in any way to complete this project.

hoipou hoipos

- 4 -

#### SUMMARY

### STRUCTURAL DESIGN OF A TWO-STOREY HOUSE

by Spyrou Spyros

The purpose of this project was to analyse and design a two-storey house in reinforced concrete from preliminary architectural drawings. Analysis and design were carried out manually by using charts, tables and clauses of BS 8110: 1985.

## CONTENTS

	Page
Contents	
Acknowledgements	4
Summary	5
Introduction	6-7
Notation	8
Slabs	10-76
Beams	78-298
Columns	300-362
Foundations	364-375
Staircase	377-382
References	383
Conclusions	384