

ENERGY EFFICIENT DESIGN;

**Applicability of computer tools to simulate energy consumptions
& Thermal performances for Sri Lankan Multistory Buildings.**

The dissertation presented to the
Faculty of Architecture of the
University of Moratuwa, Sri Lanka
For the final Examination in
M.Sc (Architecture)
And to the Royal Institute of
British Architects
For R.I.B.A (Part 11) Examination



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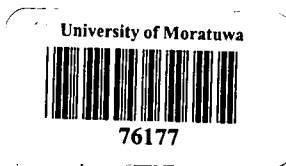
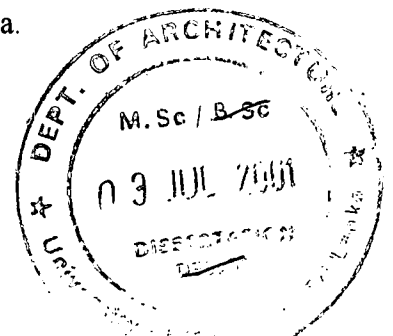
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ABSTRACT

To achieve the energy efficiency goal, Architects and building designers require effective design tools for analyzing and understanding the complex behaviour of building energy use. With the advancement in computer technology, computer simulation and modeling has been widely used for providing accurate and detailed appraisal of building energy performance.

DEROB-LTH is one of such computer simulation programme witch can be applied in the building process as a guide line for the Architects to create, energy efficient building and urban design.

The research approach is used to illustrate specific details and applicability of DEROB – LTH, and how it is applied for thermal performance of a building.



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	PAGE
ABSTRACT	i
ACKNOWLEDGEMENTS	ii
 CONTENTS.	
LIST OF ILLUSTRATIONS.	
• LIST OF PLATES	iii
• LIST OF FIGURES	iv
• LIST OF TABLES	v
 CHAPTER ONE INTRODUCTION	
1.1 GENERAL INTRODUCTION	
“ IMPORTANCE OF ENERGY EFFICIENT BUILDING & COMPUTER SIMULATION IN EARLY DESIGN STAGE”	1-4
1.2 OBJECTIVES	4
1.3 LIMITATION	4
1.4 METHOD OF STUDY	4-5
 CHAPTER TWO –BACKGROUND STUDIES	
INTRODUCTION	
2.1 THE BUILDING SKIN	7
2.2 ELEMENTS OF EXTERNAL CLIMATE	
2.3 ELEMENTS OF INTERNAL CLIMATE	
2.4. DEFINITIONS	9-10
2.4a RELATIVE HUMIDITY	
2.4b OPERATIVE TEMPERATURE	
2.5 APPRAISAL OF ENERGY EFFICIENT DESIGN	11-17
WHAT IS ENERGY EFFICIENT DESIGN	
2.6 ENERGY SAVINGS IN BUILDINGS	18
2.7 THERMAL COMFORT.	19
2.8 STANDARD METHODS OF DEVELOPING THE COMFORT ZONE	20-21
THERMAL COMFORT FOR SRI LANKA.	
2.8a SOME FACTORS THAT EFFECT THE THERMAL PERFORMANCE OF BUILDINGS	22-24
2.9 EARLIER THERMAL STUDIES	25
 CHAPTER THREE	
INTRODUCTION	
3.1 AN EXPLANATION ON COMPUTER SIMULATION	26-39
3.2 PRINCIPLES OF SIMULATION.	
3.3 THE USES OF SIMULATION	
3.4 PRE-DESIGN COMPUTER ANALYSIS TOOLS -- INTERNATIONAL LEVEL	
3.4.a ENERGY- 10	
3.4 b DOE - 2	
3.4 c ESP- r	
3.5 DEROB LTH	



	PAGE
<u>CHAPTER FOUR</u>	
COMPUTER SIMULATION FOR SRI LANKA MULTI STOREY BUILDINGS.	40-58
4.1 BUILDING DETAILS	
4.2 METHODOLOGY OF COMPUTER SIMULATIONS	
4.3 THE RESEARCH PROCEDURE	
<u>CHAPTER FIVE</u>	59-75
RESULTS & ANALYSIS	
5.1. APPLICABILITY OF COMPUTER SIMULATION (BASED ON 4 DIFFERENT SITUATIONS)	
5.1 A COMPARISON ON MEASURED VALUES SIMULATED RESULTS	
CASE 1 CASE 2 CASE3 CASE4	
APPLICATIONS	
5.2 a THERMAL PERFORMANCE ANALYSIS BY THI DIFFERENCES.	
5.2 b THERMAL PERFORMANCE ANALYSIS WITHIN SAME ROOM WITH DIFFERENT SITUATIONS	
5.2 c THE ANALYSIS OF THERMAL PERFORMANCES OF DIFFERENT ROOF TYPES	
<u>CHAPTER SIX</u>	76-79
6.1 CONCLUSION	
6.2 IMPLICATIONS	
6.3 DIRECTIONS FOR FURTHER STUDY	
BIBLIOGRAPHY	80-81
ABBREVIATIONS	



LIST OF PLATES

Page no.

Plate 1, The basic model of CASE 1,2,3
(Building type A)

47

Plate 2, The basic model of CASE 4
(Building type B)

51



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LIST OF FIGURES

Page no.

Fig. 1	The Psychometric Chart	10
Fig. 2	Energy cycle	12
Fig. 3	Interdependence end used & embodied energy	12
Fig. 4	Human settlements in mesa Verde	13
Fig. 5	The evolution of settlement form	14
Fig. 6	The height of the build form according to the climate	14
Fig. 7	GDP electricity relationship for Sri Lanka	16
Fig. 8	Energy efficient high rise building	17
Fig. 9	Day light distribution	28
Fig.10	Visual comfort visual impact evaluation	29
Fig.11	(a) Selected buildings of the simulation	41
	(b) Selected buildings type A-Examination center	41
Fig.12	Cross section of the roof	42
Fig.13	Cross section of the floor slab	43
Fig.14	Selected building type B-Examination center	44
Fig.15	Cross section of the roof slab	45
Fig.16	Selected building type B-	45
Fig.17	Section of the combined Layers	49
Fig.18	Specific axis in DEROB – LTH	49
Fig.19	Positions of doors windows in DEROB-LTH	50
Fig.20	Building section shows different volumes	50
Fig.21	Section of the roof details	51
Fig.22	Specific things in roof modeling (DEROB-LTH)	51
Fig.23	Simulated & measured values – CASE 1	60
Fig.24	Simulated & measured values – CASE 2	61
Fig.25	Simulated & measured values – CASE 3	62
Fig.26	Simulated & measured values	63
Fig.27	Comparison between THI, value & OT value	65
Fig.28	Corrected between THI, value & OT value	66
Fig.29	THI difference – CASE 1	68
Fig.30	THI difference – CASE 2	69
Fig.31	THI difference – CASE 3	70
Fig.33	OT charts P.M.V. charts	72
Fig.32	OT values different situations	73
Fig.34	Comparison between OT values of different roof materials	75

LIST OF TABLES

		Page no.
Table 1	Thermal properties of materials	46
Table 2	All the research materials	48
Table 3	(a) Combined layers	48
	(b) Climatic Data file, DEROB-LTH	52
Table 4	Measured Internal Climatic date- CASE 1	53
Table 5	Measured Internal Climatic date- CASE 2	54
Table 6	Measured Internal Climatic date- CASE 3	54
Table 7	Measured Internal Climatic date- CASE 4	55
Table 8	(a) External Climatic Data	56
	(b) THI Differences	57
Table 9	Surface temperature file DEROB – LTH	58