

بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِیْمِ





شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



جامعة عين شمس

التوثيق الإلكتروني والميكروفيلم

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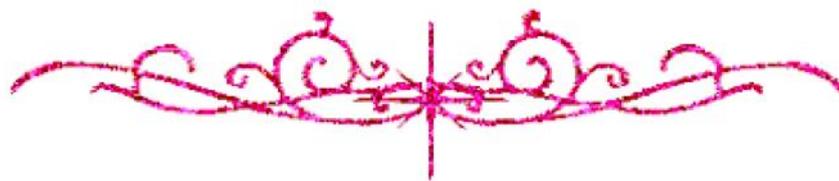


بعض الوثائق الأصلية تالفة





بالرسالة صفحات لم ترد بالأصل





FLEXIBILITY OF ARCHITECTURAL DESIGN IN SCHOOLS

By
Marwa Helmy Ahmed Elazab

A Thesis Submitted to the
Faculty of Engineering at Cairo University
in Partial Fulfillment of the
Requirements for the Degree of
MASTER OF SCIENCE
in
Architectural Engineering

FACULTY OF ENGINEERING, CAIRO UNIVERSITY
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Under the Supervision of

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Title of Thesis : **Flexibility of Architectural Design in Schools**

Key Words: Flexibility; Future needs; changing needs; Multi-purpose; Schools.

Summary :

Modern people are facing a number of inevitable challenges. One of these challenges is represented in being forced to live in buildings that fail to respond to future needs. Therefore, it has become one of the modern life essentials to have flexible buildings that can respond to their users' changing needs.

This is the pivot idea behind the flexible buildings, which should be able to cope with the future needs; to convert; and to interact. The flexible architecture is one of buildings' development aspects, as it is part of the solution of functional problems that need creative response. The creative response qualifies any building to respond to its users' needs through attaining new functions to the building.

The principle of flexibility can be applied in all patterns of buildings. This study tackles the application of flexibility principle on educational buildings, i.e. basic education schools. Choosing schools to test the terms of flexibility is based on the notion that schools are the place where education methodologies change with time and this change requires flexible schools to cope with.

Disclaimer

I hereby declare that this thesis is my own original work and that no part of it has been submitted for a degree qualification at any other university or institute.

I further declare that I have appropriately acknowledged all sources used and have cited them in the references section.

Name: Marwa helmy elazab

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Signature:

DEDICATION

This thesis is dedicated to:

My parents, who have been our source of inspiration and gave me strength when I thought of giving up, who continually provide their moral, spiritual, emotional, and financial support,

My brothers, relatives, mentor, friends, and classmates who shared their words of advice and encouragement to finish this study,

All the people in my life who touch my heart,

I dedicate this research.

ACKNOWLEDGMENTS

In the name of Allah, Most Gracious, Most Merciful

First and foremost thanks to Allah who gave me strength, patience and ability to accomplish this research.

I would like to express my sincere appreciation to **Prof. Dr. Hisham Sherif Gabr**, the main advisor of my dissertation, for his encouragement, support and guidance throughout my study as well as in completing this research. I will never be able to fully express how grateful I am to him for helping and guiding me to the greatest need. My sincere appreciation is also extended to **Prof. Dr. Zeinab Yousef Shafik**, the second advisor, for her valuable suggestion and comments and guidance to accomplish the research. My gratitude is expressed to her for taking the time, whenever necessary, to provide a suggestion that has significantly improved the quality of this dissertation.

Acknowledgments are due to the engineers of the Educational Buildings Authority who have provided their cooperation and assistance to me. I would like to extend my sincere thanks and gratitude to **Dr. Mohammed Abu Elmagd** for helping and supporting throughout this study.

My sincere appreciation is due to all students and teachers who are referenced in this study for their valuable ideas and for helping me.

I would not have been able to complete this without some amazing people for whose help I am immeasurably grateful: **My parents**; first my **Mother** who supported by all ways, and my **Father** my main encourager and motivator. **God bless you both.**

I am grateful to anyone I had met in my life and helped me to be here today. And thanks everyone will help me to achieve what I aspire for in the future.

Finally, I have tried my best to avoid mistakes or inaccurate data and information in this study. I apologize for any mistake that was beyond my understanding and knowledge, and may ALLAH forgive me.

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