بسم الله الرحمن الرحيم

شبكة المعلومـــــات الجامعية

التوثيق الالكتروني والميكروفيلم

شبكة المعلومات الجامعية

جامعة عين شمس

التوثيق الالكتروني والميكروفيلم

﴿ قـــسـم ﴾

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها
علي هذه الأفلام قد اعدت دون آية تغيرات

يجب أن

تحفظ هذه الأفلام بعيداً عن الغبار

في درجة حرارة من 15 – 20 مئوية ورطوبة نسبية من 20-40 %

To be kept away from dust in dry cool place of
15 – 25c and relative humidity 20-40 %

بعض الوثائق الأصلية تالفة

بالرسالة صفحات

لم ترد بالأصـــل

DESIGN WITH ENERGY

BIOGEOMETRY AS AN INTERGRATE APPROACH FOR DESIGNING ARCHITECTURAL LIVING SPACES

By
Marwa Mohamed Ali Dabaieh

A Thesis submitted to the Faculty of engineering Cairo University

In partial fulfillment of the requirement for the degree of

MASTER OF SCIENCE
In
ARCHITECTURAL ENGINERRING

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Faculty of Engineering, Cairo University
Giza, Egypt
February ٢٠٠٦

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Faculty of Engineering, Cairo University
Giza, Egypt
February 2006

To Allah the most powerful who
Endow me the gift of thinking.
To my Grand Mother's soul
To my Mum and Dad
To my little sister
To science demanders

To Allah the most powerful
Endow me the gift of thinking
To my friend Mother Soul
To my Mum and Dad
To my little sister
To science Lemmaders

Abstract:

With the advance of new technology we are subjected to various types of harmful unseen rays and waves .which pollute our surrounding environment and is considered a danger that may destroy our immunity systems .may be this will be the source of eradication of all life features on the earth, if this kind of pollution reaches to a limit where our immunity systems collapse completely in front of it.

According to international statistics Human beings spend 95% of their life inside buildings .which means that our buildings must play a vital rule in protecting humans from surrounding dangers.

Architecture is a forming language for space which human being used for living, working, healing or any other purpose. And as the quality of spaces is affected by the quality of air inside it, It is affected with forms and different angles used in the design of space as well.

BioGeometry is a forming language which used shapes, color, sound and motion to achieve balance and harmony in human spaces. This balance and harmony is needed now a day to face the surrounding global dangers.

From here came the idea of this thesis which is design with energy using BioGeometry as an approach for design our architectural living spaces.

The thesis tried to discuses the architectural design process and principles from a different point of view. Starting from site location, building orientation, building shape, design of openings, building materials, colors of mass, colors of internal spaces till the furniture design, color and orientation in spaces. The thesis discusses all acquainted procedures in architectural design but from energy design point of view. Using qualitative measurements for evaluating the quality of energy needed in architectural living spaces.

Analyses for existing buildings from our architectural heritage were introduced in the thesis to prove that the concept of design with energy is an old new concept. It is only that we had forgotten it with time and plunged in modern superficial aspects of design.

The thesis had reached to manual and checklist which will help architects and designers to reach the goal of design with energy. Putting into consideration all precautions needed for avoiding all harmful hazards, of earth energy grid lines intersections and electromagnetic fields. A practical example was introduced to make it easy for architects and designers to use the manual and the checklist and to apply the concept of design with energy .Following the manual steps and using the correcting tools for any deficiencies in design, guaranteed harmony and balance in our designed architectural living spaces.