

بسم الله الرحمن الرحيم



HOSSAM MAGHRABY



شبكة المعلومات الجامعية

التوثيق الالكتروني والميكرو فيلم



HOSSAM MAGHRABY

جامعة عين شمس

التوثيق الإلكتروني والميكروفيلم

قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها
على هذه الأقراص المدمجة قد أعدت دون أية تغيرات



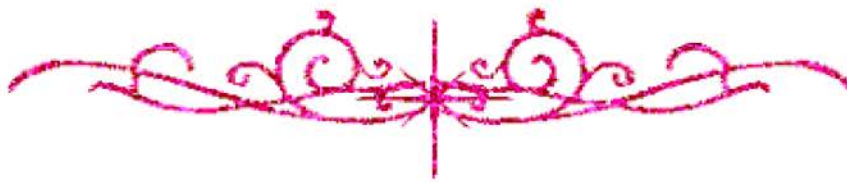
يجب أن

تحفظ هذه الأقراص المدمجة بعيدا عن الغبار

HOSSAM MAGHRABY



بعض الوثائق الأصلية تالفة



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بالرسالة صفحات

لم ترد بالأصل



HOSSAM MAGHRABY

**BEHAVIOR OF BIAXIALLY AND UNIAXIALLY LOADED SHORT
HIGH STRENGTH CONCRETE COLUMNS STRENGTHENED USING
FIBER REINFORCED POLYMER LAMINATES**

BY

B1 E E Y Y

ENG. Wael MOHAMMED MOHAMMED HASSAN

B.Sc. of Civil Engineering (1998)

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
CIVIL ENGINEERING
(STRUCTURES)

FACULTY OF ENGINEERING, CAIRO UNIVERSITY

GIZA, EGYPT

May 2004

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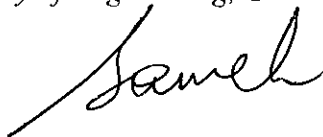
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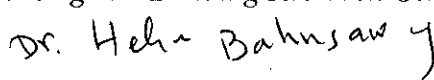


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FACULTY OF ENGINEERING, CAIRO UNIVERSITY

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Approved by the Examining Committee:

Prof. Dr. Shaker Ahmed El-Behairy

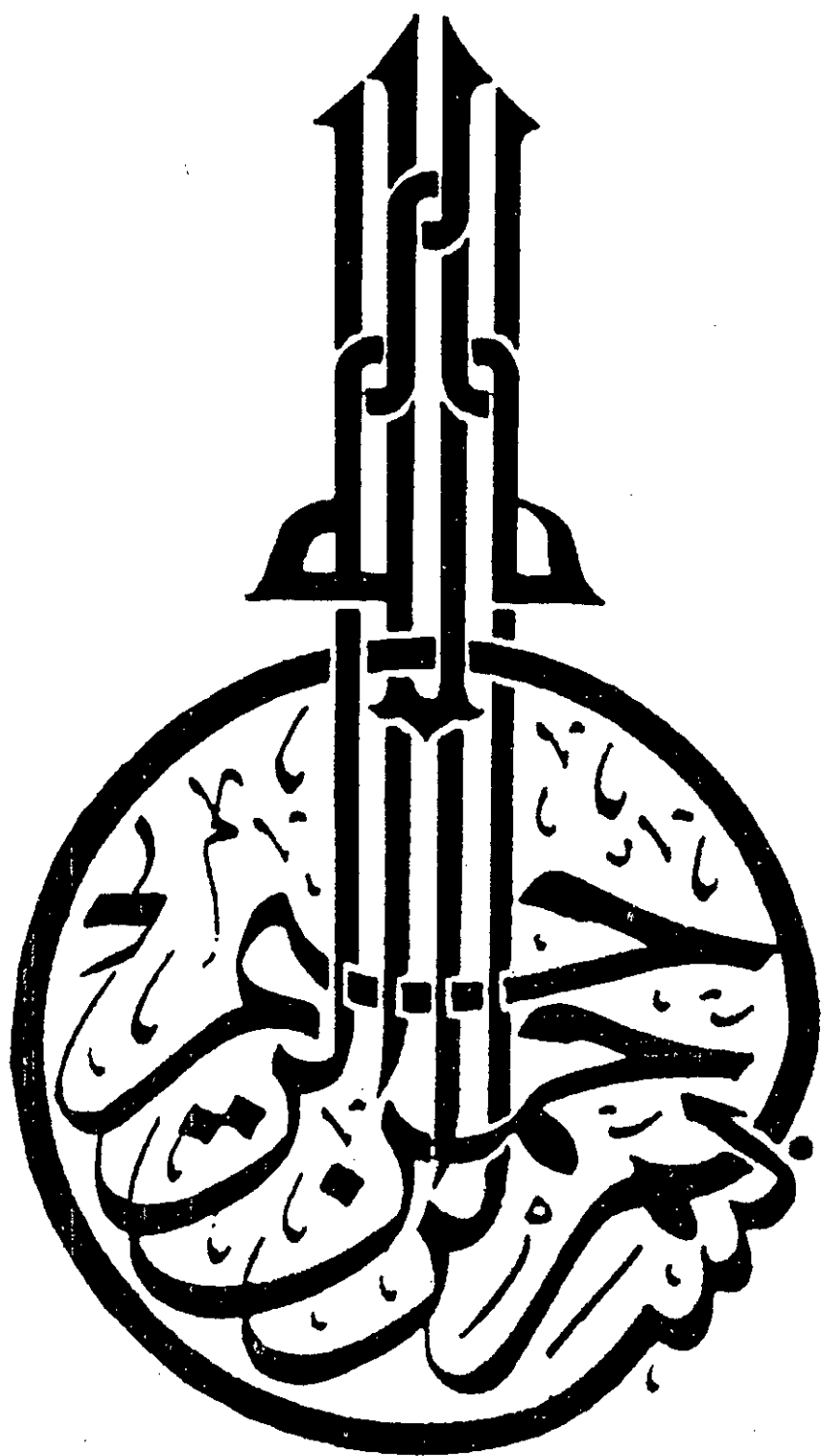
Prof. Dr. Ashraf Hassan El-Zanaty

Prof. Dr. Mohamed Sameh Mohamed Hilal (Supervisor)

Prof. Dr. Heba Hamed Bahnasawy

(Supervisor) *Dr. Heba Bahnasawy*

FACULTY OF ENGINEERING, CAIRO UNIVERSITY
GIZA, EGYPT
May 2004



Dedication

To My Lovely Family:

My Dear Grandmother

My Great Mother

My beloved Father

My Wonderful Wife

My Lovely Kid: Maryam

My Dear Brother

My Dear Sister

