



شبكة المعلومات الجامعية

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ





شبكة المعلومات الجامعية



شبكة المعلومات الجامعية

التوثيق الالكتروني والميكرو فيلم

جامعة عين شمس

التوثيق الالكتروني والميكرو فيلم

قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها
على هذه الأفلام قد اعدت دون أية 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 %



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بعض الوثائق الأصلية تالفة



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بالرسالة صفحات
لم ترد بالأصل

**EXPERIMENTAL AND THEORETICAL STUDY FOR ESTIMATING THE STRUCTURAL
BEHAVIOR AND THE RESIDUAL CAPACITY OF REINFORCED CONCRETE SHORT
COLUMNS WITH CORRODED REBARS**

By

Mohamed Ahmed Mohamed Khafaga

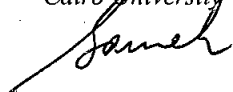
A Thesis Submitted to the
Faculty of Engineering at Cairo University
in Partial Fulfillment of the
Requirements for the Degree of
DOCTOR OF PHILOSOPHY
in
CIVIL ENGINEERING
(STRUCTURES)

Under the Supervision of

Prof. Dr.

Mohamed Sameh Mohamed Hilal

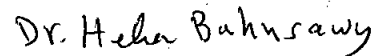
*Professor of strength and technology of materials
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FACULTY OF ENGINEERING, CAIRO UNIVERSITY

GIZA, EGYPT

June 2002

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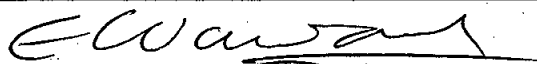
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Approved by the Examining Committee:

Prof. Dr. Omar Aly El-Nawawy



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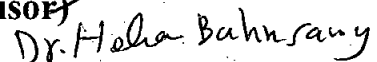


Prof. Dr. Mohamed Sameh Mohamed Hilal (Supervisor)



Prof. Dr. Heba Hamed Bahnasawi

(Supervisor)



Dr. Heba Bahnasawi

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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

Dedicated to:

The soul of my great father

My great mother

My wonderful wife

My lovely kids

My dear brothers

My dear sister

ACKNOWLEDGEMENT

The author wishes to express his sincere appreciation and deep gratitude to *Prof. Dr. Mohamed Sameh Hilal*, Professor of strength of materials, Structural Engineering Department, Cairo University, for his kind supervision and powerful support in overcoming all problems, which faced the preparation of this thesis.

Also, words can not express how deep I am grateful to *Prof. Dr. Heba Hamed Bahnasawi*, Professor of strength of materials, Head of materials department of Housing and Building Research Center, for her powerful support in overcoming all problems which faced the preparation of this thesis as they just appeared.

Warm thanks with very deep appreciation to *Dr. Mohamed Helmy Swellam*, Lecturer, Structural Engineering Department, Cairo University, for his great interest, valuable contribution and continuous support in preparing this thesis.

Special thanks are also due to the staff of the materials and reinforced concrete research laboratories, Housing Building Research Center, especially *Dr. Yahia Abd El-Megeed* and *Dr. Amr El-Hefnawi* for their great help in this study.

