



شبكة المعلومات الجامعية
التوثيق الإلكتروني والميكروفيلم

بسم الله الرحمن الرحيم



HANAA ALY



شبكة المعلومات الجامعية
التوثيق الإلكتروني والميكروفيلم



شبكة المعلومات الجامعية التوثيق الإلكتروني والميكروفيلم



HANAA ALY



شبكة المعلومات الجامعية
التوثيق الإلكتروني والميكروفيلم

جامعة عين شمس

التوثيق الإلكتروني والميكروفيلم

قسم

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



يجب أن

تحفظ هذه الأقراص المدمجة بعيدا عن الغبار



HANAA ALY



AIN SHAMS UNIVERSITY
FACULTY OF ENGINEERING

Structural Engineering

**Properties of Reactive Powder Concrete Incorporating Local
Materials and its Applications**

A Thesis submitted in partial fulfilment of the requirements of the degree of
Doctor of Philosophy in Civil Engineering
(Structural Engineering)

by

Ola Ahmed Badawy Mayhoub

Master of Science in Civil Engineering
(Structural Engineering)

Faculty of Engineering, Ain shams, 2015

Supervised by

Prof. Dr.El-Sayed Abdel Raouf Nasr

Professor of Properties and Testing of Materials
Structural Engineering Department
Ain Shams University

Prof. Dr.Yehia Abdel Zaher Ali

Professor of Properties and Testing of Materials
Structural Engineering Department
Ain Shams University

Dr. Mohamed Kohail Mohamed Fayez

Associate Professor
Structural Engineering Department
Ain Shams University

Cairo - (2021)



AIN SHAMS UNIVERSITY
FACULTY OF ENGINEERING
Structural Engineering

**Properties of Reactive Powder Concrete Incorporating Local
Materials and its Applications**

by

Ola Ahmed Badawy Mayhoub

Master of Science in Civil Engineering
(Structural Engineering)

Faculty of Engineering, Ain shams, 2015

Supervision Committee

Prof. Dr.El-Sayed Abdel Raouf Nasr
Professor of Properties and Testing of Materials
Structural Engineering Department
Faculty of Engineering, Ain Shams University

.....

Prof. Dr. Yehia Abdel Zaher Ali
Professor of Properties and Testing of Materials
Structural Engineering Department
Faculty of Engineering, Ain Shams University

.....

Dr. Mohamed Kohail Mohamed Fayez
Associate Professor
Structural Engineering Department
Faculty of Engineering, Ain Shams University

.....

Date: / /



AIN SHAMS UNIVERSITY
FACULTY OF ENGINEERING
Structural Engineering

**Properties of Reactive Powder Concrete Incorporating Local
Materials and its Applications**

by

Ola Ahmed Badawy Mayhoub

Master of Science in Civil Engineering
(Structural Engineering)
Faculty of Engineering, Ain shams, 2015

Examiners' Committee

Prof. Dr. An Chen

Professor of Properties and Testing of Materials
School of Civil Engineering
Beijing Jiaotong University, Beijing, China

Prof. Dr. Abdel-Moaty Khalaf

Professor of Properties and Testing of Materials
Structural Engineering Department
Faculty of Engineering, Ain Shams University

Prof. Dr. El-Sayed Abdel Raouf Nasr

Professor of Properties and Testing of Materials
Structural Engineering Department
Faculty of Engineering, Ain Shams University

Prof. Dr. Yehia Abdel Zaher Ali

Professor of Properties and Testing of Materials
Structural Engineering Department
Faculty of Engineering, Ain Shams University

Date: / /

Statement

This thesis is submitted as partial fulfilment of Doctor of Philosophy in Civil Engineering (Structural Engineering), Faculty of Engineering, Ain shams University.

The author carried out the work included in this thesis, and no part of it has been submitted for a degree or a qualification at any other scientific entity.

Ola Ahmed Badawy Ahmed Mayhoub

Signature

.....

Date: / /

Researcher Data

Name	: Ola Ahmed Badawy Mayhoub
Date of birth	: 27/7/1980
Place of birth	: Cairo- Egypt
Last academic degree	: Master of Science in Civil Engineering
Field of specialization	: Structural Engineering
University issued the degree	: Faculty of Engineering, Ain Shams University
Date of issued degree	: January 2015
Current job	: Assistant Lecturer

Acknowledgments

First and foremost, I am grateful to express my deep thanks to God for offering me the opportunity, knowledge, and the strength to complete this research.

I wish to express my sincere gratitude to my research supervisors, **Prof. Dr. El-Sayed Abdel Raouf Nasr and Prof. Dr. Yehia Abdel Zaher** for their valuable advices, knowledge, insightful comments throughout this research.

I would like to express my deep and sincere gratitude to my research supervisor **Dr. Mohamed Kohail Mohamed Fayez** for his valuable guidance, helpful advices and continuous moral support during the research program. His motivation has deeply inspired me and encouraged me throughout all this work.

I am fully indebted to my mother and my father for their continuous support, sacrifice and endless prayers through day and night.

I would like to express my special thanks to my husband for his continuous support.

To My Beloved daughters Bassant and Sara who served as my inspiration to pursue this work.

