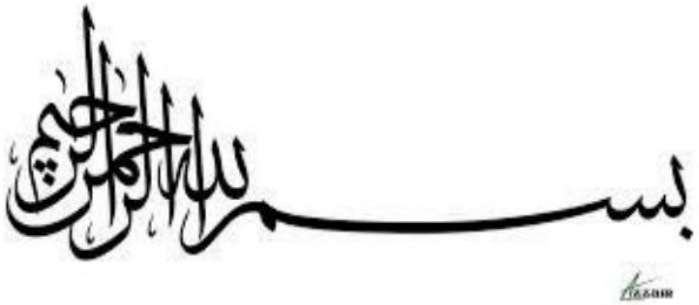

يقول الله تعالى:

" قل إن صلاتي ونسكي ومحياي ومماتي لله رب

العالمين لا شريك له وبذلك أمرت وأنا أول المسلمين "

صدق الله العظيم
الأنعام – آية 17

Dedication

To the success of taught me patience
To those who missed him in the face of difficulties
Minimum stayed he was fed with affection for….. My father ♥♥
And to those who are racing to come out words expressing the innermost same
Who taught me and suffered difficulties to get to what I am….. My mother ♥♥
And to all my brothers and my family

Acknowledgements

First of all, I am grateful to **ALLAH** the Almighty for all blessing in this life and for giving me power and ability that were necessary to achieve this goal. All thanks and praise belongs to **ALLAH** "Al-hamdulillah".

I would like to express my sincere appreciation to my supervisor **Dr: Fath Elrahman Mohamed Adam** for his professional guidance, valuable help, encouragement, understanding and endless patience not only throughout this study but also for other situations. also his beneficial suggestions and valuable comments for this study which helped to improve the quality of the work.

I would like to thank my friend **Mr. Mohamed Khider Hassan** for their assistance & support during this study.

Abstract

This thesis presents a method for the design of high elevated flat slab formwork. The method defines the primary stages of the design process, determines the detailed procedure within each stage, and identifies the basic data needed for exercising the design.

The proposed method is aimed at producing design solutions that meet both quality and economy criteria. The method used in this thesis was based on designing a program using Microsoft excels software to test flat slab elements of constructing building selected as a case study and the method procedure was done according to the requirements of the (ACI-347) Code.

Carefully the output data from the program were studied and verified to insure about the safety and economics of the proposed formwork for flat slab.

مستخلص الدراسة

تقدم هذه الاطروحه طريقة لتصميم الفرم الخرسانية لبلاطة مسطحه لمبنى سكنى مكون من أربعة طوابق. تتناول الطريقة المراحل الأولية لعملية التصميم ، بالإضافة للاجراءات المفصلة لكل مرحلة ، وتحدد البيانات الأساسية اللازمه لممارسة التصميم .

تهدف الطريقة المقترحة إلي انتاج حلول التصميم التى تلبى كل من متطلبات الجودة والاقتصاد على حد سواء . طريقة التصميم التي إستخدمت في هذه الاطروحه اعتمدت علي عمل برنامج بالإستعانة ببرنامج مايكروسوفت اكسل لاختبار الفرم الخرسانية للبلاطات المسطحة لمبني تم أخذه كدراسة حالة وجرت خطوات طريقة التصميم وفقا لمتطلبات المدونة الأمريكية ACI- 347.

تمت دراسة مخرجات البرنامج بعناية والتحقق منها بغرض الوصول إلي ضمان تحقق الأمان والاقتصاد لمقترح الفرم الخرسانية للبلاطات المسطحه .

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