



شبكة المعلومات الجامعية

بسم الله الرحمن الرحيم



شبكة المعلومات الجامعية  
@ ASUNET



# شبكة المعلومات الجامعية التوثيق الالكتروني والميكرو فيلم





شبكة المعلومات الجامعية

# جامعة عين شمس

التوثيق الالكتروني والميكرو فيلم

## قسم

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



## يجب أن

تحفظ هذه الأفلام بعيدا عن الغبار

في درجة حرارة من ١٥-٢٥ مئوية ورطوبة نسبية من ٢٠-٤٠%

To be Kept away from Dust in Dry Cool place of  
15-25- c and relative humidity 20-40%

# بعض الوثائق الأصلية تالفة

# بالرسالة صفحات لم ترد بالاصل



624,1

# **Stiffness of Rigid Foundations Resting on Layered Soil**

**By**

**Mohammad Kamal Ahmad Darweesh**

B.Sc. Civil Engineering  
Higher Technological Institute

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

**STRUCTURAL ENGINEERING**

س.ا.  
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FACULTY OF ENGINEERING, CAIRO UNIVERSITY  
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*O. Ramadan*

**Prof. Dr. Osman M. Osman Ramadan**

Structural Engineering Department  
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Approved by the  
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## ***Dedication***

To my parents and my brothers ...

To my lovely wife and my dear daughter and son ...

To my friends and all good people ...

Great thanks for all of you, for any help through my life.



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