



شبكة المعلومات الجامعية

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ





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# شبكة المعلومات الجامعية

## التوثيق الالكتروني والميكرو فيلم

# جامعة عين شمس

التوثيق الالكتروني والميكرو فيلم

## قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها  
علي 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

# **DESIGN OF SUBMARINE PIPELINES AGAINST UPHEAVAL BUCKLING**

**BY**

**ENG. MOATAZ MOHAMED FADEL OSMAN  
B. Sc., FACULTY OF ENGINEERING  
AIN SHAMS UNIVERSITY  
1991**

**A THESIS**

**Submitted in Partial Fulfillment  
for the Requirements of the Degree of  
Master of Science  
In**

**CIVIL ENGINEERING (STRUCTURAL)**

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**CAIRO-1997**

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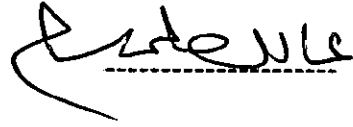
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## EXAMINERS COMMITTEE

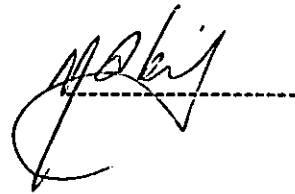
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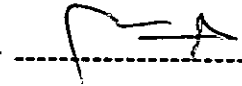
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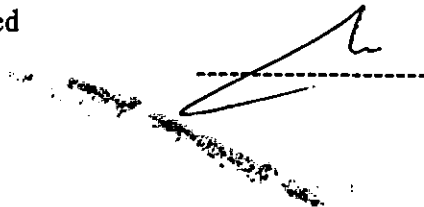
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Date: / 10 / 1997



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## STATEMENT

This dissertation is submitted to Ain Shams University for the degree of Master of Science in Civil Engineering (Structural).

The work included in this thesis was carried out by the author in the (Structural Engineering Department), Ain Shams University, from December 1992 to may 1997.

No part of this thesis has been submitted for a degree or a qualification at any other University or Institution.

Name: Moataz Mohamed Fadel Osman

Signature: *Moataz M. Fadel*

Date: 27 \ 10 \ 1997

TO

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