

AIN SHAMS UNIVERSITY  
FACULTY OF ENGINEERING

**DEVELOPMENT OF CONTROL MEASURES TO REDUCE  
THE SEEPAGE THROUGH EARTH STRUCTURES**

BY

**MOHAMED ISMAIL MOSTAFA DARWISH**  
B.Sc. IN CIVIL ENGINEERING, 1991  
AIN SHAMS UNIVERSITY

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A THESIS  
SUBMITTED IN PARTIAL FULFILLMENT FOR THE  
REQUIREMENT OF THE DEGREE OF MASTER OF SCIENCE

IN  
CIVIL ENGINEERING

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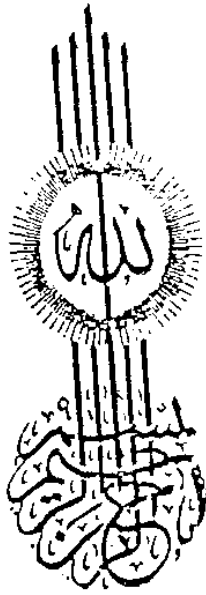
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# DEVELOPMENT OF CONTROL MEASURES TO REDUCE THE SEEPAGE THROUGH EARTH STRUCTURES

M.Sc Degree submitted by  
**Eng. Mohamed Ismail Mostafa Darwish**  
In Civil Engineering (Irrigation and Hydraulics)

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Date - -1995

Cairo- 1995





## STATEMENT

This thesis is submitted to Ain Shams University for the degree of Master of Science in Civil Engineering.

The work included in this thesis was carried out by the author in the Department of Irrigation and Hydraulics, Faculty of Engineering, Ain Shams University from 1992 to 1995.

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

Date :

Signature : M. I. M. Darwish

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*To my mother, and the memory of my father...*



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