

شبكة المعلومات الجامعية







شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



شبكة المعلومات الجامعية

## جامعة عين شمس

التوثيق الالكتروني والميكروفيلم

### قسم

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



يجب أن

تحفظ هذه الأفلام بعيدا عن الغبار في درجة حرارة من ١٥-٥٠ مئوية ورطوبة نسبية من ٢٠-٠٠% To be Kept away from Dust in Dry Cool place of 15-25- c and relative humidity 20-40%



# بعض الوثائـــق الإصليــة تالفــة



# بالرسالة صفحات لم ترد بالإصل



بيتي ليفوال من التعزيل التعزيل التعريب

## THE ROLE OF ELECTRONIC INSTRUMENTATION IN ENVIRONMENTAL CONTROL PROGRAMMES

By

#### ADEL ABDEL-SAMII HAMED SAKR

- 1-Bachelor of Engineering in Telecommunications and Electronics in 1986 Faculty of Engineering - Shoubra - Cairo Zacazig University
- 2- Diploma in environmental science Department of Engineering in 1991 Institute of Environmental Studies and Research Ain Shams University

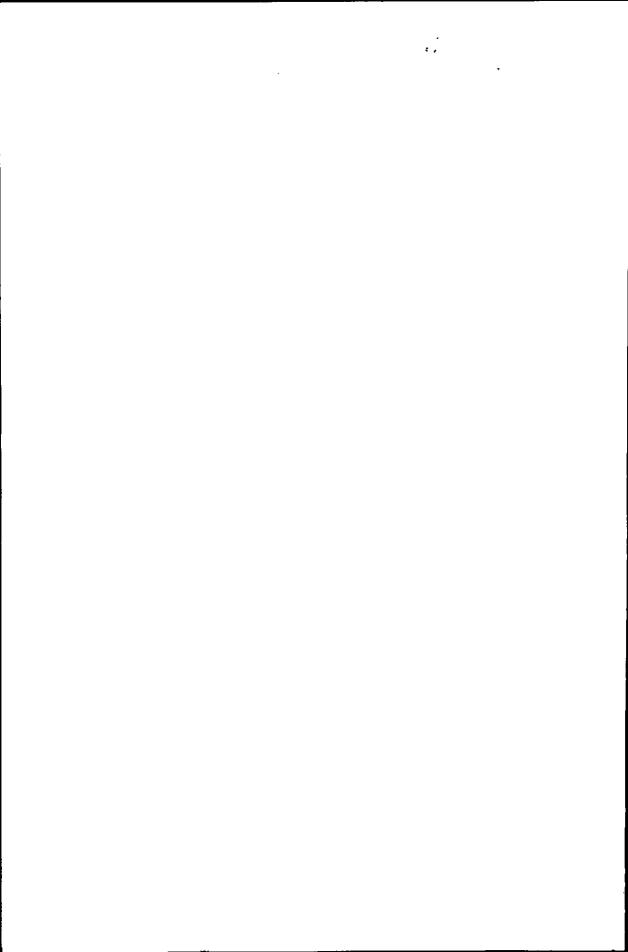
A thesis submitted in partial fulfillment of

The requirements for the Master Degree in

Environmental Science

Department of : Engineering

Institute of Environmental Studies and Research
Ain Shams University



## THE ROLE OF ELECTRONIC INSTRUMENTATION IN ENVIRONMENTAL CONTROL PROGRAMMES

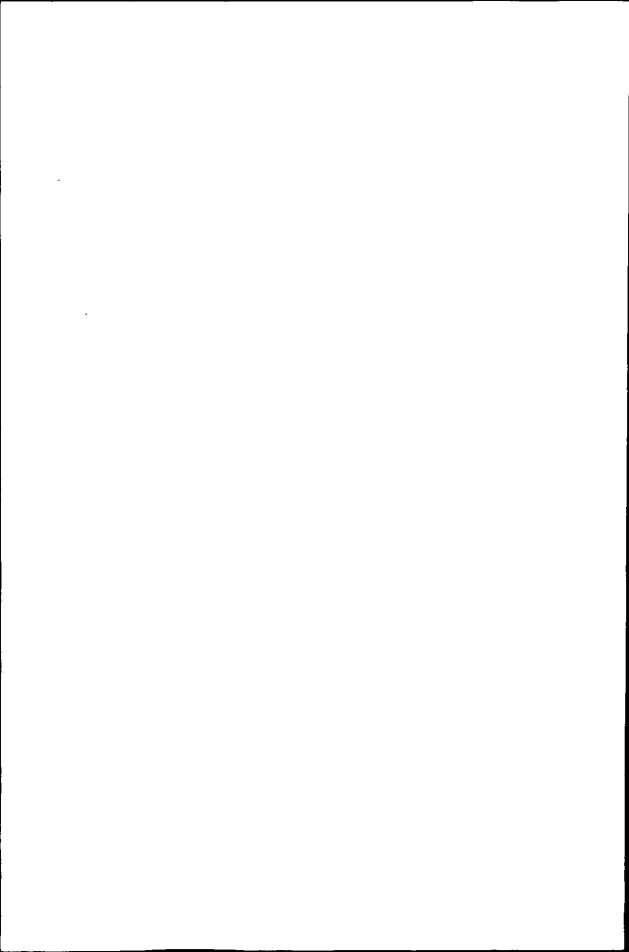
# A THESIS SUBMITTED IN PARTIAL FULFILLMENT FOR THE DEGREE OF MASTER OF SCIENCE

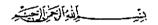
By

ADEL ABDEL-SAMII HAMED SAKR HOT LABORATORIES CENTER, ATOMIC ENERGY AUTHORITY, CAIRO, EGYPT.

To

DEPARTMENT OF ENGINEERING, INSTITUTE OF ENVIRONMENTAL STUDIES AND RESEARCH, AIN SHAMS UNIVERSITY, CAIRO, EGYPT. 1997





AIN SHAMS UNIVERSITY
INSTITUTE OF ENVIRONMENTAL
STUDIES AND RESEARCH
DEPARTMENT OF ENGINEERING

# THE ROLE OF ELECTRONIC INSTRUMENTATION IN ENVIRONMENTAL CONTROL PROGRAMMES

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

BY

#### ADEL ABDEL-SAMII SAKR

Thesis advisors:

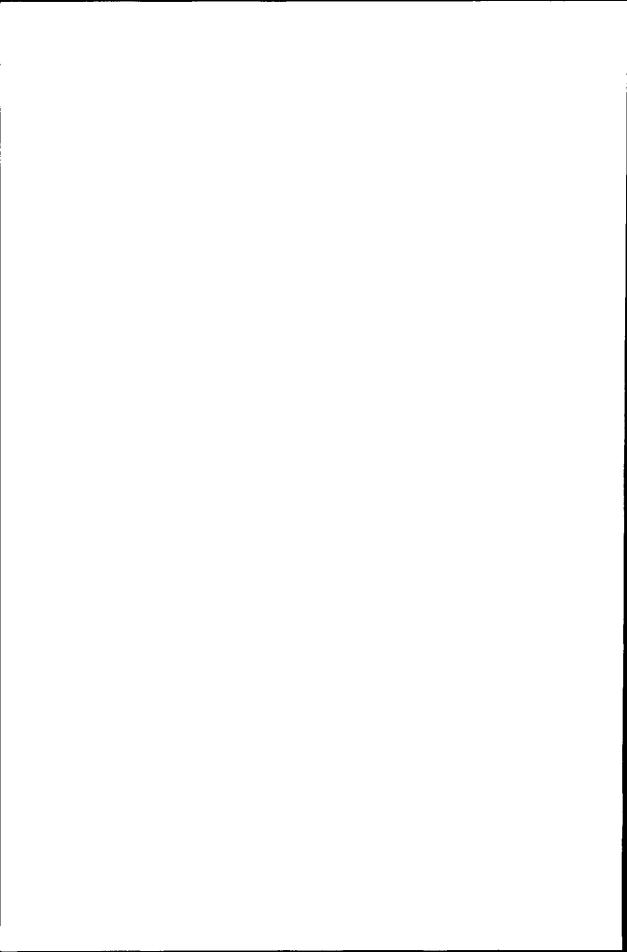
1. Prof. HANI RAGAI

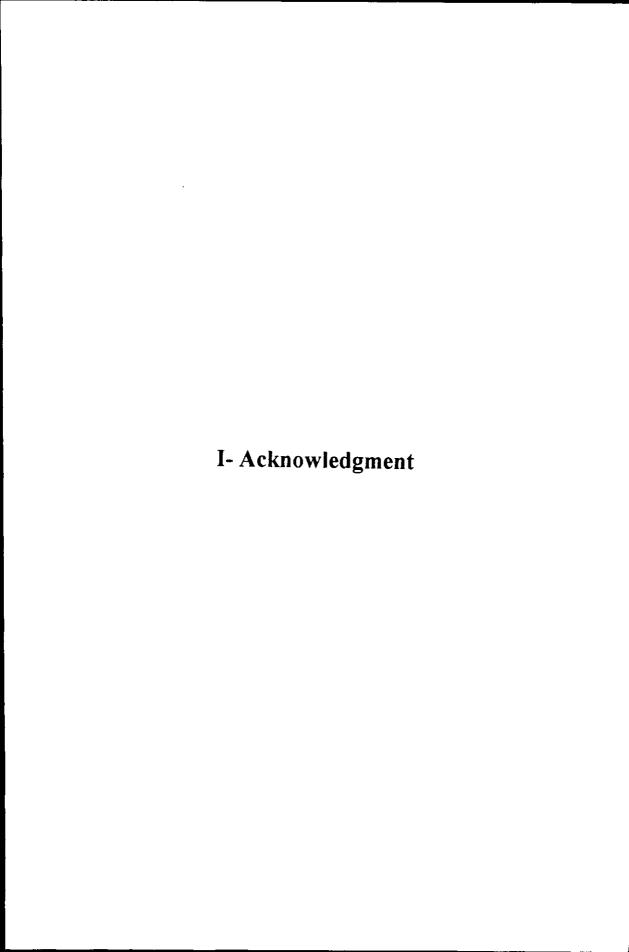
Professor in Electronic and Communication Engineering Department Ain Shams University.

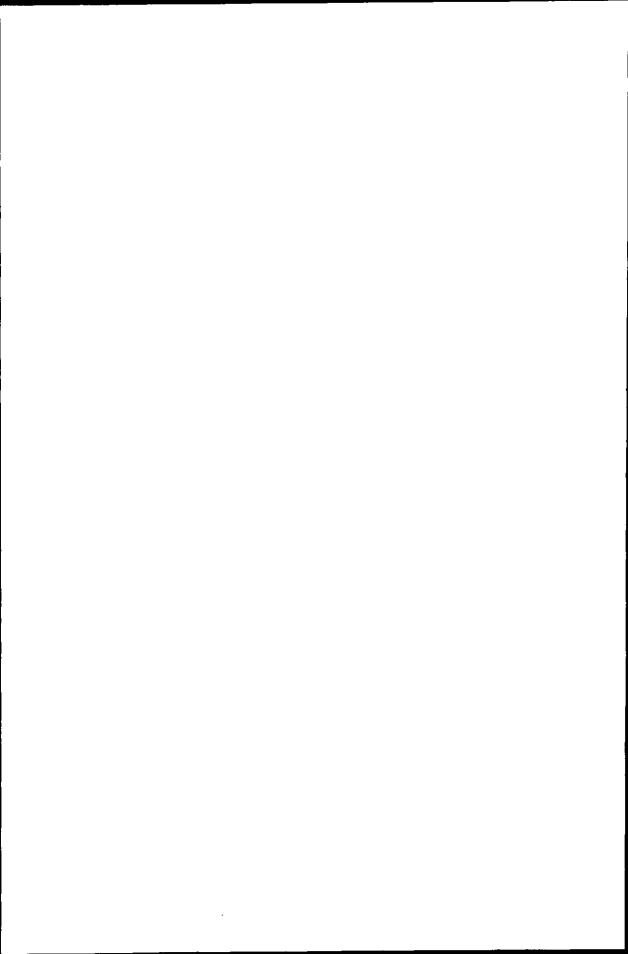
2. Dr. KALED HAMED

Assistant Prof. of construction, Hot Lap. Center Atomic Energy Authority.

3. Dr. WAEL FIKRY
Assistant Prof. in Physics and Mathematical Engineering Department
Ain Shams University.







The author is grateful to Prof. HANI RAGAI and Dr. WAEL FIKRY both from Faculty of Engineering, Ain Shams University and Dr. K. A. HAMED teacher in radiation protection unit, Hot Laboratories Center, Atomic Energy Authority for their kind supervision and valuable guidance which brought this work to accomplishment.

Thanks are also to all members and colleagues in Hot Laboratories Center, Atomic Energy Authority for their kind help and sympathy.

