

سامية محمد مصطفى



شبكة المعلومات الجامعية

بسم الله الرحمن الرحيم



سامية محمد مصطفى



شبكة المعلومات الجامعية



شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



سامية محمد مصطفى



شبكة المعلومات الجامعية

جامعة عين شمس

التوثيق الإلكتروني والميكروفيلم

قسم

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



يجب أن

تحفظ هذه الأقراص المدمجة بعيدا عن الغبار



سامية محمد مصطفى



شبكة المعلومات الجامعية



بعض الوثائق الأصلية تالفة



سامية محمد مصطفى



شبكة المعلومات الجامعية



بالرسالة صفحات لم ترد بالأصل



Chemical Investigations Related to the Removal of Certain Hazardous Elements from Waste Solutions"

A Thesis

Presented To

The Faculty of Science

Ain Shams University

By

Mahmoud Ali Mohamed Hasan

B.Sc., M.Sc.

For

The Degree of Ph.D.

Thesis Advisors

Prof. Dr. Saad A. Mohamed

Professor of physical Chemistry
Faculty of Science,
Ain Shams University.

Prof. Dr. Hisham F. Aly

Professor of Nuclear Chemistry
and Ex-Chairman of Atomic
Energy Authority

Prof. Dr. Sohair A. El-Reefy

Professor of Radiochemistry
Hot Labs Center,
Atomic Energy Authority

2001

B

14 797

(10)

ly

2

21/1

22/1

22/1

Approval Sheet

Name: Mahmoud Ali Mohamed Hasan

Title: "Chemical investigations related to the removal of certain hazardous elements from waste solutions"

Supervisors

Approval

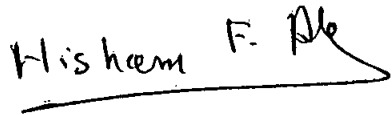
Prof. Dr. Saad A. Mohamed



Professor of physical Chemistry

Faculty of Science, Ain Shams University

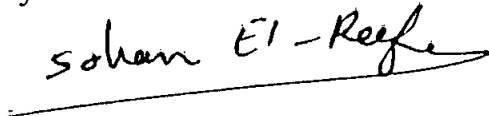
Prof. Dr. Hisham F. Aly



Professor of Nuclear Chemistry and Ex-

Chairman of Atomic Energy Authority

Prof. Dr. Sohair A. El-Reefy



Professor of Radiochemistry

Isotopes Labs Center, Atomic Energy Authority

Credit

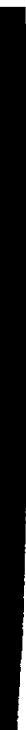
Prof. Dr. M. A. El-Kasaby



Head of Chemistry Department

to l:

uring
the



ACKNOWLEDGEMENT

ACKNOWLEDGEMENT

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

ACKNOWLEDGEMENT

Before all and above, I thank my God, without his grace the progress and success of this work was impossible.

*The author wishes to thank **Prof. Dr. Saad A. Mohamed** Professor of Physical Chemistry, Faculty of Science, Ain Shams University, for valuable guiding and sponsoring this work at the university.*

*The author wishes to express his sincere appreciation and attitude to **Prof. Dr. Hisham F. Aly**, Prof. of Nuclear Chemistry, Hot Labs Center and Ex-Chairman of Atomic Energy Authority who suggested the problem, for his, supervision, useful discussions and guidance. His insight and patience on both the professional and personal levels helped in the accomplishment of this work.*

*The author is deeply indebted to **Prof. Dr. Sohair A. El-Reefy**, Professor of Radiochemistry, Hot Labs Center, Atomic Energy Authority for unlimited help and supervision of all the work presented in this thesis.*

I would like also to thank all the staff members, and colleagues in the Analytical Chemistry Department, for their encouragement and cooperation.

