

بسم الله الرحمن الرحيم



-C-02-50-2-





شبكة المعلومات الجامعية التوثيق الالكتروني والميكرونيلم





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 يعيدا عن الغيار







بالرسالة صفحات لم ترد بالأصل









GEOLOGIC, TECTONIC AND GEOCHEMICAL CHARACTERIZATION OF THE EGYPTIAN PLUTONIC ROCKS USING COMPUTER TECHNIQUES

By Sayed Saber Ali Talab

B.Sc., Ain Shams University and M.Sc., Ain Shams University

Thesis submitted to the Geology Department Faculty of Science,

Ain Shams University, Cairo, Egypt

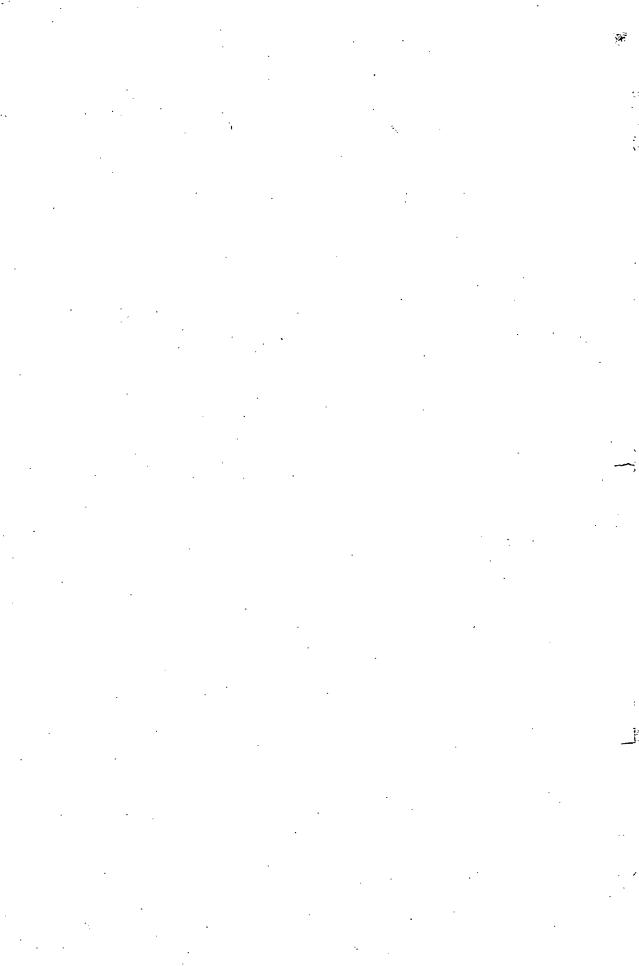
For

68651

Ph.D.

Degree in Geology

Cairo, 2000







إلى أمى الحبيبة إلى روم أبى الطاهرة إلى كل من علمنى حرفا

. . .

APPROVAL SHEET

TITLE: Geologic, Tectonic and Geochemical Characterization of the Egyptian Plutonic Rocks Using Computer Techniques

NAME: Sayed Saber Ali Talab

Thesis Submitted
for the Degree of
Philosophy Doctor in Science,
Geology Department, Faculty of Science,
Ain Shams University

Advisors	Approved
1. Prof. Dr. Mohammed E. Helmy	***************************************
(Ain Shams University)	
2. Prof. Dr. Abdallah A. Abdel Monem	A. A. Abdel-Money
(Nuclear Materials Authority)	
3. Prof. Dr. Hussein A. Hussein	H. A. Hussen
(Nuclear Materials Authority)	



ACKNOWLEDGEMENTS

The author acknowledges the helps, advises, supports and encouragements offered during the progress of this thesis.

The author wishes to express his deep thanks to **Prof. Dr. M.E. Helmy,** Geology Department, Faculty of Science, Ain Shams University, for his supervision of the present work.

Special thanks are due to **Prof. Dr. A.A. Abdel Monem**, Nuclear Materials Authority (NMA) for suggesting the research project, his supervision, close and continuos support and critical reading, proving and revising of many versions of the manuscript. Without these intimate efforts, this work could not have been developed in the actual way presented.

Great thanks are due to **Prof. Dr. H. A. Hussein**, (NMA) for his supervision of this thesis. His close, kindly act as grand brother in his treatments during the progress of this work is highly acknowledged. All of his facilities, management, advises and discussions through the preparation of this thesis is unforgotten and highly appreciated for ever.

Particular thanks are due to Prof. Dr. A. B. Salman, President of NMA and Prof. Dr. H. S. El Nasr, Vice President of NMA for authorizing the facilities needed during the preparation of this thesis.

Many Thanks are due to Prof. Dr. M. Y. Attawiya, Head of Research Division (NMA) for his helps.

My deep thanks are due to **Prof. Dr. M. M. Ali** (NMA) for providing many literature sources which eased the data compilations.

Many thanks are due to my colleagues Dr. M. A. Abdel Aaty, Dr. S. E. Ammar, Dr. M. E. El Galy, Dr. M. G. El Feky, Mr. S. Z. Tawfik, Dr. A. A. F. Abdel Wahed, Mr. S. M. Hilmy, Mr. M. Saad, Mrs. S. M. Mathyal and Mrs. I.A. Saleh (NMA) for their encouragements.

Hearty and deep thanks are due to my mother for her warm feeling and encouragement. Also, many thanks are offered to the mother and to the uncles of my sons and daughter for patience and sharing in the responsibilities of my children during the preparations of this work.

