

**STUDIES ON INDANONE
DERIVATIVES AND THEIR
REACTIVITY TOWARD PHASE
-TRANSFER CATALYSIS**

A Thesis

Submitted in Partial Fulfilment of the Requirments for
M.Sc. Degree in Chemistry

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Presented By

Ali Khaleel Ali

B.Sc. (Excellent "Honor Degree")

Department Of Chemistry
Faculty Of Science
Ain Shams University
Cairo, Egypt
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AIN SHAMS UNIVERSITY
FACULTY OF SCIENCE
CHEMISTRY DEPARTMENT

POST GRADUATE STUDIES FOR M.Sc STUDENT
IN ORGANIC CHEMISTRY (92-93)

This is to certify that *ALI*
KHALIL ALI has passed
successfully the following post
graduate courses as partial
fulfillment of the requirement for
the degree of Master of Science.

1-Advanced studies in physical organic chemistry

- i) Polar reaction mechanism.
- ii) Pericyclic reaction.

2-Advanced studies in heterocyclic chemistry.

3-Advanced studies in applied spectroscopic analysis.

Electronic spectra, Infrared, $^1\text{H-NMR}$, $\text{C}^{13}\text{-NMR}$, and Mass spectroscopy of organic chemistry.

4-Advanced studies in natural product

5-Advanced studies in microanalysis

6-Advanced studies in polymer chemistry.

7-Advanced studies in aromaticity.

- 8-Advanced studies in organic reagents.
- 9-Advanced studies in organometallic.
- 10-Advanced studies in photochemistry.
- 11-Advanced studies in free radical reaction mechanism.
- 12-Selected topics in organic reactions.
- 13-English Language Courses.

Head of Chemistry Department

Prof. Dr. A. F. M. Fahmy

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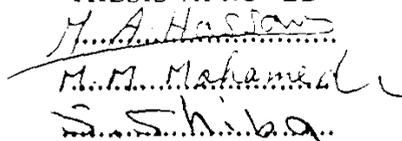
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By
Ali Khaleel Ali

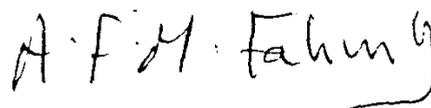
THESIS ADVISORS

Prof. Dr. M. A. Hassan
Prof. Dr. M. M. Mohamed
Dr. S. A. Shiba

THESIS APPROVED


M. A. Hassan
M. M. Mohamed
S. A. Shiba

Head of Chemistry Department


Prof. Dr. A. F. M. Fahmy

***To my family
For their continuous inspiration
and encouragement.***

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