

## ACKNOWLEDGEMENTS

I wish to express my deeply honest appreciation to *Prof . Dr. A.Kandil* for suggesting the topic of research , his continuous encouragement and his valuable discussions .

I wish to express my deep thanks and gratitude to *Dr. A.A. Nouh* for his tremendous efforts , his interest and his continuous supervision through preparing the thesis .

I am very thankful and grateful to *Prof. Dr. A.A. Dabbour* for his guidance , support ,valuable discussion and helping in preparing this work.

Also I wish to express my sincere thanks and gratitude to *Prof. Dr. F. M. El Batanony* for his support , assistance , guidance and continuous encouragements through preparing the thesis .

I am grateful to *Prof . Dr E. S. EL Ghabaty* , Head of the Department , Faculty of Science , Benha University , for his help and support .

Finally , thanks to *Prof. Dr. E. F. EL- Shahawy* , Head of Math . Dept. , Faculty of Education , Ain Shams University , for his support and encouragement during the preparing of this thesis .

*S. A. EL- Sheikh*