Acknowledgement

At the beginning, I thank the Almighty Allah for helping me to complete this thesis. I would like to express my sincere appreciation to my supervisor prof. Nafie Abd Al-Lattief, lam grateful to him for all helps and fruitful advices, my thanks short to his great assists and kind guidance. My thanks, also to the staff of Physics and Chemistry Departments and the Institute

of laser in Sudan University of Science and Technology. My humble thanks to every one who help me during my work.