

ACKNOWLEDGEMENTS

I would like to express my appreciation and gratitude to the many people who have contributed to this study. Without them, it would not have been possible. Tremendous appreciation is especially to Assoc. Prof. Dr. Poom Kumam for his knowledge, guidance, and constant encouragement during all phases of this thesis. He is the most important person in my life for inspiration to pursue my Ph.D. study. It was a great fortune to have him as an advisor. I would like to show my gratitude to Prof. Dr. Yeol Je Cho and Prof. Dr. Suthep Suantai their who shared valuable time served as the chairman of doctoral committee. I also would like to show Assoc. Prof. Dr. Usa Humphries and Assoc. Prof. Dr. Narin Petrot, who shared their time as my doctoral committee and their thoughtful comments. Special thanks to Prof. Dr. Anthony To-ming Lau, Prof. Dr. Brailey Sims and Prof. Dr. Phan Quoc Khanh for their valuable guidance. I am extremely grateful to Prof. Dr. Yeol Je Cho for their experts, valuable guidance, best cooperation and many supports extended to me while I visit and do short research at Gyeongsang National University in Korea and Prof. Dr. Tamaki Tanaka for their experts, valuable guidance, best cooperation and many supports extended to me while I visit and do short research at Niigata University in Japan. Gratitude is expressed to my parents and my family, who despite of being very far away, have lent me their encouragement. I appreciate all other lectures during my study in Department of Mathematics at King Mongkut's University of Technology Thonburi (KMUTT). I also would like to gratitude to the staff at KMUTT. I would like to reveal my special thanks to Dr. Wutiphol Sintunavarat and Miss Uamporn Wittayarat for their kindly helps and guidance in English that enlighten me to do my dissertation prosperously. My special sincere thanks are also extended to Mr. Parin Chaipunya and students in fixed point lab at KMUTT. Finally, I would like to thanks the Thailand Research Fund through the Royal Golden Jubilee Program under Grant PHD/0029/2553 for the Ph.D program at KMUTT for their financial support.