

Acknowledgments

First of all, I would like to express deepest gratitude to my supervisor, Associate Professor Shigeo Matsubara at Kyoto University, for his continuous instruction, invaluable advice, and earnest argument. My special appreciation goes to my advisers, Associate Professor Qiang Ma at Kyoto University and Professor Jun Yoshida at Kyoto University, whose opinions and information have helped me very much throughout the production of this study. I am also indebted to Professor Toru Ishida, who provided helpful comments and suggestions. Finally, I would like to thank all members of Ishida and Matsubara laboratory, especially to Shinsuke Goto, for their various support and valuable discussions.