## **CONTENTS**

Chapter 1 General Outline of the project
1. Outline
2. Necessity 16
3. Domestic and international status of related technology 17
Chapter 2 Results of the project
1. Improvement and application of DREAM 18
2. Operation system development for satellite space radiation
prediction model 30
3. Korean Earth's radiation belt's electron flux prediction model
development ······ 41
4. Correlation analysis between satellite anomalies and space
weather indices, electron flux51
5. Construction of monitoring system of high energy electrons'
radiation risk to satellites 84
6. Support and training for the satellite customers 117
Chapter 3 Future plans121
1. Research achievements summary 121
2. Goals and contribution to the academic society 125
3. Application plans
4. Science and technology informations 126
Chapter 4 Research achievements
1. Academic achievements
2. Intellectual Property 134
3. National science and Technology Information Service (NTIS)
registration ······ 135
Chapter 5 References