

List of Tables

| Table | Page |
|--|-------------|
| 3.1 Summary of the current practices of five selected companies | 38 |
| 5.1 Data of the required operations for producing products | 78 |
| 5.2 Operation schedules based on SR and SD methods | 79 |
| 5.3 Operations required for producing product XX | 84 |
| 5.4 Analysis of variance results | 86 |
| 5.5 Average values of performance measures for significant options | 87 |
| 5.6 Possible setting of NFCMRP options | 89 |
| 5.7 Comparison of means and ranking results between NFCMRP and VMRP systems | 90 |
| 6.1 Effects of penalty weights in objective function on performance measures | 105 |
| 6.2 Analysis of variance results | 105 |
| 6.3 Average values and ranking of performance measures | 105 |
| 7.1 Analysis of variance results | 113 |
| 7.2 Average values and ranking of performance measures | 113 |