

Figure 1.1 Outline of this study



Figure.1.2 Prototype of SP-120



Figure 2.2 Geometric relationships with respect to the mobile plate and the fixed plate



Figure 2.3 Geometric relationships with respect to the two linkages and two sliders on a guideway



Figure 2.4 RSSR mechanism



Figure 3.1 Geometric error sources of a hexglider manipulator under investigation



Figure 3.2 (a) Guideway translation error Figure 3.2 (b) Guideway rotation error I



Figure 3.2 (c) Guideway rotation error II



Figure 3.4 Guideway translation error along X-axis for RSSR mechanism_Type II



Figure 3.6 Guideway translation error along Y-axis for RSSR mechanism_Type II



Figure 3.7 Guideway translation error along Z-axis for RSSR mechanism_Type I



Figure 3.8 Guideway translation error along Z-axis for RSSR mechanism_Type II



Figure 3.9 Guideway rotation error on XY plane for RSSR mechanism_Type I



Figure 3.10 Guideway rotation error on XY plane for RSSR mechanism_Type II



Figure 3.11 Guideway rotation error on YZ plane for RSSR mechanism_Type I



Figure 3.12 Guideway rotation error on YZ plane for RSSR mechanism_Type II



Figure 3.13 Guideway rotation error about the center of the base for RSSR mechanism_Type I



Figure 3.14 Guideway rotation error about the center of the base for RSSR mechanism_Type II



Figure. 3.15 Procedure of modeling the overall profile error