## List of Tables

2.1 List of existing telescopes ........................................ 16
2.2 List of selected events ........................................... 23
3.1 List of eruptive prominences ..................................... 31
3.2 Filament eruption: May 5-9, 1979 ............................... 34
3.3 Filament eruption: January 15-28, 1990 ....................... 36
3.4 Filament eruption: April 11-24, 1990 ......................... 40
3.5 Filament eruption: May 2, 1990 ................................. 44
4.1 Measured values of $r$, $R$, $S$, $h$ for prominence tubes March 11, 1979. 62
4.2 Estimated physical quantities for the helical prominence March 11, 1979 63
4.3 Measured values of $r$, $R$, $S$, $h$ for prominence tubes January 22, 1979. 74
4.4 Estimated physical quantities for the helical prominence January 22, 1979. 75

xvi