PETERSON FIELD GUIDES®

Stars and Planets

Jay M. Pasachoff / Donald H. Menzel

CONTENTS

	Editor's Note	v
	Acknowledgments	vii
	How to Use This Book	1
1	A First Look at the Sky	5
2	A Tour of the Sky	17
3	The Monthly Sky Maps	55
4	The Constellations	134
5	Stars, Nebulae, and Galaxies	148
6	Double and Variable Stars	190
7	Atlas of the Sky	202
8	The Moon	322
9	Finding the Planets	353
10	Observing the Planets	368
11	Comets	403
12	Asteroids	411
13	Meteors and Meteor Showers	413
14	Observing the Sun	419
15	Coordinates, Time, and Calendars	432
	Appendices	440
	Glossary	475
	Bibliography	483
	Telescope Information	488
	Index	491

TABLES AND APPENDICES

Tables

1. The Brightest Stars in the Sky 8
2. Angles in the Sky 11
3. The Magnitude Scale 57
4. Examples of Magnitudes 58
5. Which Constellations Are Up at Night? 59
6. Index to Monthly Sky Maps 60
7. Selected Double Stars 185
8. Selected Variable Stars 185
9. Selected Open and Globular Clusters 186
10. Selected Nebulae and Galaxies 186
11. Minima of Algol 192
12. Messier Catalogue 205
13. Phases of the Moon 324
14. Manned Missions to the Moon 329
15. Lunar Eclipses 331
16. Oppositions of Jupiter 374
17. Oppositions of Mars 389
18. The Brightest Asteroids 411
19. Major Meteor Showers 414
20. Solar Eclipses 428
21. Solar Eclipse Photography 431
22. Angular Units for Coordinates in the Sky 433
23. Time Zones 438

Appendices

1. The Constellations 440
2. The Brightest Stars, to Magnitude 3.5 442
3. Properties of the Principal Spectral Types 455
4. The Nearest Stars 456
5. Selected Bright Planetary Nebulae 457
6. Double Stars 458
7. Long-Period Variable Stars 460
8. Short-Period Variable Stars 461
9. Properties of the Planets 462
10. Planetary Satellites 463
11. Planetary Longitudes 467
12. Local Sidereal Time 471
13. Regions Covered by the Atlas Charts 473
14. Days of the Year 474