

Astronomy: A Physical Perspective (2nd Ed)

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FURTHER READING

Abbreviations:

ARAA *Annual Reviews of Astronomy and Astrophysics*. In general, this series consists of a compendium of references to higher level articles, by some of the review articles here have good descriptive material, and those listed below.

SA *Scientific American*

S & T *Sky and Telescope*

Chapter 2

"From Hipparchus to Hipparcos: Measuring the Universe one Star at a Time", C. Turon, *S&T*, Vol. 94, No. 1 , p. 28 (1997)

Chapter 3

"The HR Diagram and Galactic Distance Scale after Hipparcos," by I.N. Reid, in *ARAA*, Vol. 37, p. 79 (1999)

Chapter 4

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"Eyewitness View: First Sight for a Glass Giant," by Massimo Tarenghi, *S&T*, Nov. 1998, p. 46.

"Ten Dark-Sky Years," by D. H. Levy, *S&T*, Sept. 1998, p. 32.

"The First 50 Years at Palomar: 1949 -1999. The Early Years of Stellar Evolution, Cosmology and High-Energy Astrophysics, by A. Sandage, , in *ARAA*, Vol. 37, p. 445 (1999)

"The First 50 Years at Palomar, 1949 - 1999 Another View: Instruments, Spectroscopy and Spectrophotometry and the Infrared," by G. Wallerstein and J. B. Oke, in *ARAA*, Vol. 38, p. 79 (2000)

“Extreme UV Astronomy,” S. Bowyer, J. J. Drake and S. Vennes, in *ARAA*, Vol. 38, p. 231 (2000)

"Visions of Today's Giant Eyes," by P. K. Chen, *S&T*, Aug. 2000, p.34.

"A Galaxy of Telescopes", by Roger W. Sinnott and David Tytell, *S&T*, Aug. 2000, p.42.

"Giant Eyes of the Future" by Govert Schilling, *S&T*, Aug. 2000, p. 52.

“Telescopes, Red Stars and Chilean Skies,” by V. M. Blanco., in *ARAA*, Vol. 39, p. 1 (2001)

“Optical Interferometry” by A. Quirrenbach, in *ARAA*, Vol. 39, p. 1 (2001)

“The Development of High Resolution Imaging in Radio Astronomy,” by K. I. Kellerman and J. M. Moran, in *ARAA*, Vol. 39, p. 39 (2001)

“Creating Hubble's Technicolor Universe ,” by R. Villard and, Z. Levay , *S&T*, September 2002, p. 28

“Adaptive Optics Comes of Age,” by G. Schilling, , *S& T*, October 2001, p. 30

“Hubble Rejuvenated,” by R. T. Fienberg, , *S& T*, June 2002, p. 40

“Bright Lights, Big Problems,” by R. Thessin and J. K. Beatty , *S& T*, December 2002, p. 32

“NASA's Space Infrared Telescope Facility: Seeking Warmth in the Cosmos,” by W. H. Waller, *S& T*, February 2003, p. 42

“High Resolution X-ray Spectroscopy,” by F.B.S. Paerels and S. M. Kahn, *ARAA*, V. 41, p. 291 (2003).

Chapter 5

“The Faint End of the Stellar Luminosity Function,” by M. S Bessel and G. S. Stringfellow, , in *ARAA*, Vol. 31, p. 433 (1993).

“Pre-mainsequence Binary Stars,” by R. D. Mahieu, , in *ARAA*, Vol. 32, p. 465 (1994).

“Observations of Brown Dwarfs,” by G. Basri, , in *ARAA*, Vol. 38, p. 485 (2000).

Chapter 6

“Solar Active Regions as a Diagnostic of Subsurface Conditions,” by R. F. Howard , in *ARAA*, Vol. 34, p. 75 (1996).

“The Sun’s Variable Radiation and its Relevance for Earth,” J. Lean, , in *ARAA*, Vol. 35, p. 33 (1997).

"Solar Filter Safety," by B. Ralph Chou, *S&T*, Feb. 1998, p. 36.

“Starspots ,” by M. A. Garlick , *S& T*, March 2001, p. 42

“Solar-Eclipse Science: Still Going Strong ,” by J. M. Pasachoff , *S& T*, February 2001, p. 40

Chapter 7

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“Gravitation and Spacetime, 2nd Ed,” by H. C. Ohanian and R. Ruffini, W. W. Norton and Co., (1994). This is also an advanced undergraduate text, and is somewhat mathematically formal, but has good descriptions of the foundations of special and general relativity.

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Chapter 10

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"The Lives of Binary Stars", I. Iben, Jr. & A. V. Tuttkov, *S&T*, Vol. 95, No. 1 , p. 42 (1998)
Good diagrams

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“Type Ia Supernova Explosion Models,” by W. Hillebrandt and J. C. Niemeyer, in *ARAA*, Vol. 38, p. 191 (2000)

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"The Dynamic Lives of Globular Clusters," by S. G. Djorgovski, *S&T*, Oct. 1998, p. 38.

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“The Supermassive Black Hole at the Galactic Center,” by F. Melia and H. Falcke, in *ARAA*, Vol. 39, p. 309 (2001)

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“The Galactic Odd Couple,” by K. Weaver, in *SA*, Vol. 289, No. 1, p. 48 (2003)

Chapter 20

“Principles of Physical Cosmology,” by P. J. E. Peebles, Princeton Univ. Press (1993). Note: this is a high level undergraduate textbook, but the first section, “The Development of Physical Cosmology,” is at a reasonable level for readers of this book, and provides a good physical foundation that goes well beyond what is in Chapters of 20 and 21 of this text.

“Gravitation and Spacetime, 2nd Ed,” by H. C. Ohanian and R. Ruffini, W. W. Norton and Co., (1994). This is also an advanced undergraduate text, and is somewhat mathematically formal. Chapters 9 and 10 give a good description of cosmology.

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