Astronomy 322

Some "Getting Started" References for Six Branches of Non-optical Astronomy

In general, I give one "Scientific American" level reference, then one or more review articles.

1.) **Infrared astronomy**

Two articles on IRAS in *Ann. Rev. Astron. and Astrophys.*, **25**, 1987 (by Beichman and by Soifer *et al.*); see also Genzel and Cesarsky, *Ann. Rev. Astron. and Astrophys.* **38**, p. 761.

Skim the last two chapters of *Infrared Astronomy*, eds. Mampaso *et al.*, 1993.

SIRTF Science Center, http://sirtf.caltech.edy/science/index.shtml.

2.) **γ-ray astronomy**:

Powell, *Scientific American*, May 1993 (copy on reserve).

Gehrels *et al.*, *Scientific American*, Dec. 1993 (copy on reserve).

Schonfelder (ed.) *the Universe in Gamma Rays*, Chaps. 4, 6, 8, 12-15.

Ramana Murthy and Wolfendale, *Gamma-ray Astronomy*, 1986 (on reserve).

GLAST: http://glast.gsfc.nasa.gov/science/overview.

3.) **High energy cosmic rays**:

Cronin, Gaisser and Swordy, *Scientific American*, Jan. 1997 (copy on reserve).

Schlickheiser (ed.) *Cosmic Ray Astrophysics*, Chap. 2, 4 and 6.

4.) **Neutrino astronomy**:

Bahcall, *Scientific American*, July 1969 (copy on reserve).

Bahcall, *Science*, **147**, p. 115, 1965 (copy on reserve).

Haxton, *Ann. Rev. Astron. & Astrophys.*, **33**, p. 459.

5.) **Gravity wave astronomy**:

Weber, *Scientific American* (copy on reserve).

Tyson and Gifford in Lamb, *High Energy Astrophysics*, 1985, p. 297 (on reserve).

J. Weber's book on *Gravity Waves* (out of date and technical).

Two Web sites on planned experiments—

LIGO (http://xxx.lanl.gov/abs/gr-qc/9502013)

LISA (http://lisa.gsfc.nasa.gov/Science/Science.htm).

6.) **Dark matter "astronomy"**:
Tayler, *The Hidden Universe*, 1991.