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Salem Press Announces the Third Volume in A Brand-New Series, *Principles of Astronomy*

Salem Press is pleased to add *Principles of Astronomy* to its collection, the third of four titles in a new *Principles of* series. This new resource introduces students and researchers to the fundamentals of astronomy using easy-to-understand language, giving readers a solid start and deeper understanding and appreciation of this complex subject.

Edited by Donald R. Franceschetti, PhD from *The University of Memphis*, this reference work begins with a comprehensive introduction to the field. It starts with a discussion of the significance of naked eye observations by the earliest astronomers; the use of optical, radio, and neutron telescopes; and the contributions derived from space probes, manned missions, and space stations. The goal of this material is to advance our understanding of our own planet, the celestial bodies around us, and the ways in which astronomy and physics have become intertwined.

This edition includes 140 entries ranging from Ablation to Quarks to XMM-Newton. All entries are arranged in an A to Z order, making it easy to find the topic of interest. Each entry includes related fields of study to illustrate the connections between the various branches of astronomy, including sub-planetary astronomy, theoretical astrophysics, astrochemistry, and planetary astronomy; a brief, concrete summary of the topic and how the entry was organized; principal terms that are fundamental to the topic and to understanding the concepts presented; illustrations, diagrams, and charts that clarify difficult topics such as solar systems, white dwarf and red giant stars, orbital plotting, rocket propulsion, and near-Earth objects; star charts and photographs taken from space observatories; photographs of significant contributors to the study of astronomy; and further reading lists that relate to the entry. Entries in *Principles of Physics* range from one to five pages in length. Topics discussed include:

- Aries
- Apollo asteroids
- Black holes
- Cassiopeia
- Dark matter
- Fireball
- Galileo (ESA)
- GPS
- Orion
- Plasma physics
- Wormholes
- Mercury
- Supernova remnants
- Nucleosynthesis
- Quark star
- Plus much, much more!

The book's back matter is another valuable resource which includes **Nobel Notes** that explain how prizes awarded in areas such as chemistry and physics have advanced work in the area of astronomy; **List of important figures** in astronomy, including Ptolemy, Copernicus, Newton, and Hubble; **Timeline** of important advances in the field of astronomy and of space exploration; **Glossary**; **General bibliography**; **Web Resources**, and a **Subject index**.

The *Principle of* series offer students and researchers an easy-to-understand introduction to the major principles of Chemistry, Astronomy, Physics, and Computer Science. These new resources will be a helpful tool for students and researchers who are just beginning their studies of science and need a solid background of the key terms and elements in the field. A must have for all high school and undergraduate science programs.

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Principles of Astronomy

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