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Salem Press Announces the First Volume in A Brand-New Series, *Principles of Chemistry*

Salem Press is pleased to add *Principles of Chemistry* to its collection, the first edition in a new *Principles of* series. Physics, Astronomy, and Computer Science are other topics that will follow in this series. This new resource introduces students and researchers to the fundamentals of chemistry 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, starting with man's earliest understanding of the primary substance of life and concluding with a discussion of chemistry as the "central science" and touching on the exciting contemporary research being conducted around such fascinating materials as grapheme and buckyballs.

This edition includes 128 entries ranging from Acid Anhydrides to Zone Refining. 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 chemistry, including biochemistry, molecular biology, organic and inorganic chemistry, nuclear and physical chemistry, geochemistry, and metallurgy; a brief, concrete summary of the topic and how the entry was organized; principal terms that are fundamental to the discussion and to understanding the concepts presented; illustrations that clarify difficult concepts via models, diagrams, and charts of such key topics as the relationship between acids and bases, molecular structures, bonds, and reactions; equations that demonstrate how chemical formulas are written, how equations are balanced, and other important functions; photographs of significant contributors to the study of chemistry; sample problems that further demonstrate the concept presented; and further reading list that relates to the entry. Entries in *Principles of Chemistry* range from one to five pages in length. Topics discussed include:

- Alkanes
- Amino acids
- Atomic number
- Biochemistry
- Cell communication
- Carboxylic acids
- Neutrons
- Valence shell
- DNA computing
- Electrons
- Ketones
- Metals
- Molecular orbital theory
- Osmosis
- Ions
- Plus much, much more!

The book's back matter is another valuable resource which includes a **Periodic Table of Elements** with an introduction and history of the table and a second table with additional information about atomic weights; **Nobel Notes** that explain the significance of the prizes to the study of science and their interdisciplinary nature; **Nobel Prize winners** in the area of chemistry from the first awards in 1901, given to Jacobus Henricus van't Hoff "in recognition of the extraordinary services he has rendered by the discovery of the law of chemical dynamics and osmotic pressure in solutions" to the prize awarded in 2015 to Tomas Lindahl, Paul Modrich, and Aziz Sançar "for mechanistic studies of DNA repair"; **Glossary**; **General bibliography**; 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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