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Salem Press Announces the newest Volume in The *Principles of Science Series, Mathematics*

Salem Press is pleased to add *Principles of Mathematics* as the nineteenth title in the *Principles of Science* series. This new resource introduces students and researchers to the fundamentals of mathematics using easy-to-understand language, to provide a solid background, and help readers develop a deeper understanding and appreciation of this important and evolving subject.

Mathematics is both a disciplined way of thinking and a tool that allows scientists and engineers to understand the world around them and create new things within it. For those working in business, it is both a general approach to thinking and a specific set of procedures used to record, interpret, and present financial information. Some people even view mathematics as a source of recreation and entertainment through puzzles and games. Many, however, value mathematics for its aesthetic qualities in addition to its usefulness, such as Nobel Prize winner Albert Einstein who described it as a poetry of ideas.

This edition includes 150 entries arranged in A to Z order to help make finding a topic of interest easy. Entries related to basic principles and concepts include a Summary that provides a brief, concrete abstract of the topic; a detailed Essay that gives an explanation of the background and significance; and Further Reading lists that relate to each entry.

Entries in *Principles of Mathematics* range from one to five pages in length. Topics discussed include:

- Agriculture & Mathematics
- Applied Physics
- Calculus
- Data Mining
- Egyptian Mathematics
- Infinity
- Mathematics of Flight
- Probability and Statistics
- Robotics
- Virtual Reality and more

This volume also includes several helpful appendixes, including:

- A Glossary that defines all the key specialized terms used throughout the book
- A comprehensive General Bibliography and list of Further Reading, comprising all the works that the authors drew upon in writing their articles as well as subjects for further study
- A Subject Index, that offers multiple points of entry for the reader

With 150 essays, this new volume will give readers an overview of the major concepts, history, and contemporary issues surrounding the study of mathematics. Designed for students and researchers, this volume provides new ways to think about and study issues, policies, and practices in mathematics. This will be a helpful addition to science and math programs at the high school, community college, and university levels, and is a must for STEM students at the high school and undergraduate levels.

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Principles of Mathematics

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Other Volumes in this Series:

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