Learning Trigonometry by Problem Solving
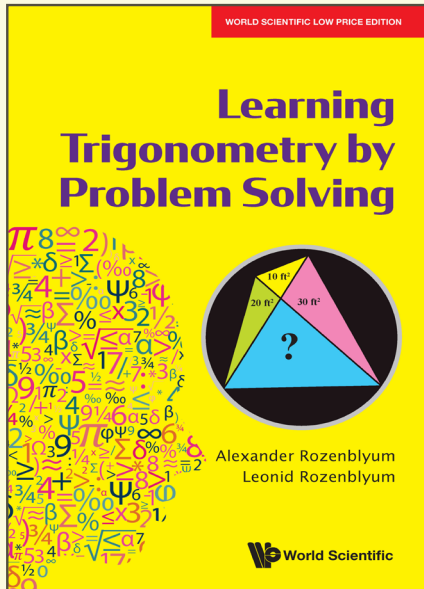
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ABOUT THE BOOK

In this book, trigonometry is presented mainly through the solution of specific problems. The problems are meant to help the reader consolidate their knowledge of the subject. In addition, they serve to motivate and provide context for the concepts, definitions, and results as they are presented. In this way, it enables a more active mastery of the subject, directly linking the results of the theory with their applications. Some historical notes are also embedded in selected chapters.

The problems in the book are selected from a variety of disciplines, such as physics, medicine, architecture, and so on. They include solving triangles, trigonometric equations, and their applications. Taken together, the problems cover the entirety of material contained in a standard trigonometry course which is studied in high school and college.

We have also added some interesting, in our opinion, entertainment problems. To solve them, no special knowledge is required. While they are not directly related to the subject of the book, they reflect its spirit and contribute to a more lighthearted reading of the material.

READERSHIP

Students and Mathematics instructors at high school, undergraduate students.

CONTENTS

- Introduction to Trigonometric Functions
- Solving Right Triangles
- Trigonometric Properties in Right Triangles
- General Definitions of Trigonometric Functions
- Basic Properties of General Trigonometric Functions. Methods for Reducing to Acute Angles
- Solving Oblique Triangles: Law of Sines

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