

PLANE AND SPHERICAL TRIGONOMETRY

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Plane and Spherical Trigonometry by H. N. Wheeler

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H. N. WHEELER

**PLANE AND
SPHERICAL
TRIGONOMETRY**

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PLANE AND SPHERICAL

TRIGONOMETRY.

BY

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PLANE TRIGONOMETRY.

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PREFACE.

THIS book originated in a desire to give to my private pupils a better idea of the trigonometric functions of obtuse angles than they could obtain from any book with which I was acquainted.

I believe that a student can get a comprehensive and thorough knowledge of trigonometry most quickly and easily, if, at the outset, such definitions are given to the trigonometric functions as will apply to all angles: with this idea for a basis, I have endeavored to prepare an elementary text-book for general use. By beginning with an explanation of the use of the negative sign as applied to lines and angles, and then giving general definitions to the trigonometric functions, I have been able to demonstrate all the fundamental formulas in a perfectly general yet simple manner.

While I have tried to present the subject from an elementary point of view, I have not lost sight of the fact, that, to most students, trigonometry is merely a stepping-stone to something higher; and for this

reason I have also tried to present the results in such a light as will make them effective tools for the student in his future work.

During the preparation and printing of the book, Prof. J. M. Peirce has kindly given me the benefit of numerous suggestions and criticisms, which have added greatly to its value. Appendix I. is entirely due to him.

Most of the examples contained in the book have been selected from other trigonometries, especially those of Todhunter, Snowball, and Hamblin Smith.

H. N. W.

CAMBRIDGE, MASS., Dec. 3, 1876.

PREFACE TO THE REVISED EDITION.

IN this edition all the typographical errors thus far detected have been corrected ; a few changes and additions have been made in the examples of right triangles ; and answers to most of the examples have been inserted at the end of Appendix II.

A treatise on Spherical Trigonometry has been prepared by the same author, and now constitutes the second part of this volume.

H. N. W.

CAMBRIDGE, MASS., Sept. 16, 1879.