

## Williamson's Meteorological Tables.

4to. Flexible Cloth. \$2.50.

PRACTICAL TABLES IN METEOROLOGY AND HYPSONOMETRY, in connection with the use of the Barometer. By Col. R. S. WILLIAMSON, U. S. A.

## Merrill's Iron Truss Bridges.

*Third Edition.*

4to. Cloth. \$5.00.

IRON TRUSS BRIDGES FOR RAILROADS. The Method of Calculating Strains in Trusses, with a careful comparison of the most prominent Trusses, in reference to economy in combination, etc., etc. By Brevet Colonel WILLIAM E. MERRILL, U.S.A., Major Corps of Engineers. Nine lithographed plates of illustrations.

"The work before us is an attempt to give a basis for sound reform in this feature of railroad engineering, by throwing 'additional light upon the method of calculating the maxima strains that can come upon any part of a bridge truss, and upon the manner of proportioning each part, so that it shall be as strong relatively to its own strains as any other part, and so that the entire bridge may be strong enough to sustain several times as great strains as the greatest that can come upon it in actual use.'"—*Scientific American*.

"The author has presented his views in a clear and intelligent manner, and the ingenuity displayed in coloring the figures so as to present certain facts to the eye forms no inappreciable part of the merits of the work. The reduction of the 'formule for obtaining the strength, volume, and weight of a cast-iron pillar under a strain of compression,' will be very acceptable to those who have occasion hereafter to make investigations involving these conditions. As a whole, the work has been well done."—*Railroad Gazette, Chicago*.

## Allan's Theory of Arches.

18mo. Boards. 50 cts.

THEORY OF ARCHES. By Prof. W. ALLAN, formerly of Washington and Lee University. Illustrated.

"This little volume is an amplification and explanation of Prof. Rankine's chapters on this subject."