

208 NEELY'S FORMULA FOR THE STRENGTH OF WOODEN BEAMS.

By referring the working stresses to the strength at the elastic limit instead of to the ultimate strength, a reliable system of strength values and factors of safety could be established, which would result in greater security and economy in the construction and use of timber beams.

PUBLICATIONS OF THE DIVISION OF FORESTRY.

The publications of the U. S. Division of Forestry so far issued as a result of the timber physics work are:

Bulletin 6. Timber Physics Part I., a preliminary statement of the scope and history of timber physics and of the methods pursued in these investigations. 4to, 57 pp. Price 10 cents.

Bulletin 8. Timber Physics Part II., being an exhaustive report of the results with Longleaf Pine. 4to, 92 pp. Out of print.

Bulletin 10. Timber—being a brief discussion of the characters and properties of wood in general, with a key and list to the commercial woods of the United States. 1895. 8vo, 88 pp. Price 10 cts.

Bulletin 12. Economical Designing of Timber Trestle Bridges, being an application of some of the results to practical problems. 8vo, 57 pp. Out of print.

Circulars 8 and 9, announcing the results of tests on bleached and unbleached Longleaf Pine.

Circular 12. Southern Pines, Mechanical and Physical Properties, giving a résumé of the results of 20,000 tests, and of an exhaustive physical examination of the four species under consideration. 4to, 12 pp.

Circular 15. Summary of Mechanical Tests on 32 species of American Woods. 4to, 12 pp.

Circular 18. Progress in Timber Physics—a résumé of results and discussion of Neely's Formula. 4to, 20 pp.

Circular 19. Progress in Timber Physics—mechanical and physical properties of the Bald Cypress. 4to, 24 pp.

These Bulletins and Circulars, together with other publications relating to Forestry, can be had at the prices noted by application to the Superintendent of Documents, Union Building, Washington, D.C., payment to be made by coin or postal note.

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