of their authority being here quoted: nevertheless, the author must acknowledge that he has received considerable assistance from a paper by Mr. P. F. Brendlinger published in No. 4, vol. iii., of the "Proceedings of the Engineers' Club of Philadelphia," treating of some railroad-bridge specifications prepared by Theodore Cooper, C.E. He wishes to acknowledge also, with many thanks, the valuable aid rendered him by his assistants, Messrs. Y. Nakajima and T. Fukuda, in preparing drawings, and checking tables.

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J. A. L. W.