



## The science of building

By Edward Wyndham Tarn

RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 44 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1870 Excerpt: . . . which would be quite invisible to the eye; so that we may consider that a permanent load of at least 16 tons may be safely laid on the centre of this beam; and this is about one-fourth of its breaking-weight. Page 94. The value of the modulus E varies according to the quality of the iron used, and can readily be found by experiment. When the load is uniformly distributed over the entire length of the beam, the deflexion is five-eighths of that produced by the same load placed at the middle. So that the deflexion due to the weight of the beam itself is five-eighths of that which would be produced if its whole weight were concentrated at the middle and the beam itself supposed without weight. Also, in calculating the deflexion of a beam by a given load, we must add five-eighths of the...



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