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## A Treatise on the Strength, Flexure, and Stiffness of Cast Iron Beams and Columns; Shewing Their Fitness to Resist Transverse Strains, Torsion, Compression, Tension, and Impulsion; With Tables of Constants, to Be Used

By William Turnbull

Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.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. 1832 Excerpt: .is the next subject that claims our attention. It is affirmed by writers on the resistance of solids, that when a beam or shaft, whose length is greater than its diameter, is subjected to the action of any force which endeavours to twist it round, the line of greatest strain is in the direction of the diagonal of a square; and if a square be drawn on the surface of a beam in its natural form, it will become a rhombus by the action of the straining force (see Tredgold on Cast Iron, art. 229 v); hence it follows, that the quantity of angular motion is double the extension of the length of the beam, therefore we get  $7 \text{ dpzi } 16 / , . (c)$  where  $/$  is the length of the beam in feet,  $d$  its diameter in inches, and  $p$  the angle of torsion. It...



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