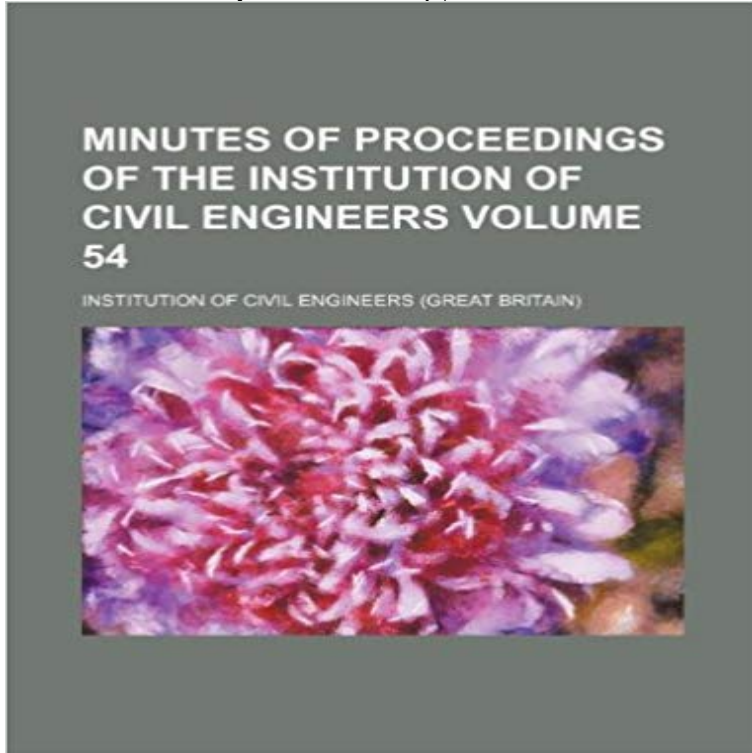


# Minutes of proceedings of the Institution of Civil Engineers Volume 54



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. 1878 Excerpt: ... structures. The following general conclusions can be drawn from the examination and comparison of all the tests made on columns:--1. For columns of the same shape, of different lengths, made of the same kind of iron, the values of  $f$  / calculated from the formula?, do not differ more than can reasonably be accounted for by the ordinary want of uniformity in the quality of the iron, the differences not being greater than those between the ultimate tensile strengths, obtained with specimens of iron of the same manufacture. 2. For columns of different shapes of cross-section, and made of different kinds of iron, the values of  $f$  / calculated do not vary more than does the strength of iron of different manufactures. 1 3. Gordons and Rankines formula) must both be considered as practically correct, for columns with fiat bearings at the ends, of different lengths and shapes of cross-section, provided the ultimate strength of one column, made of the iron to be used be determined, so that the value of the constant/ to be applied in the formulas may be calculated. This constant being very approximately proportional, but not equal to the ultimate strength of the iron, and not the same in the two formulas, being smaller for Rankines than for Gordons. 4. For columns hinged on pins at the ends, Gordons and Rankines formula; for columns rounded at one end and fixed at the other, will give approximately correct results, provided  $f$  / be determined as noted above. 5. For swelled columns, the formulas are also applicable, provided the diameter at the end be used. 6. It is of great importance for all built columns, and especially for open columns, that the several parts should be well riveted at the ends, and that true and even bearings

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