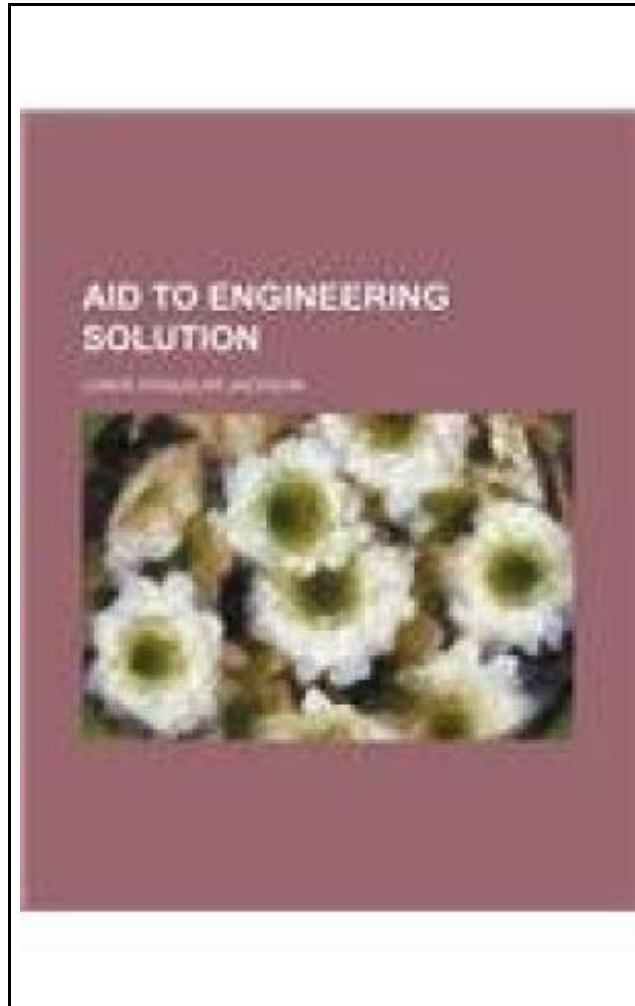


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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1885 Excerpt: .compressive and tensile resistances of material that is not isotropic, has been treated in Solution No. 4. It was there explained that in girders of uniform but unsymmetrical section, even when isotropic by design, the position of the neutral plane might practically vary to some small unknown degree. This uncertainty is still more troublesome in girders of uniform strength where the neutral axis is not horizontal; and the before-mentioned limitation, or allowance for variation of neutral axis, will also be more largely applied when dealing with these. The results will necessarily be merely approximative; the methods of arriving at them will be analogous to those employed in Solutions Nos. 5 and 6 for symmetrical sections of isotropic material. I. With an equally distributed load, adopting the unsymmetrical section used in Solution 4 and the method employed in Solution 5, we have generally, at every section of the girder, $w_x(l-x) = -;$ while at the greatest section: $= -J$. If the breadth of the section be constant, and the depth varies; let x and y be the coordinates from either point of support of any point / in the curve or line of depths. To an equation connecting r and j_y . If the depth of the section be constant, and the breadths of the flanges vary to afford uniformity of strength, we may obtain the curvature of breadth. Let x and y be the coordinates from a point of support, the breadth of one flange, n_y the breadth...



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