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Stresses in Simple Framed Structures; A Text Book to Accompany Exercises in the Computation of the Axial Stresses in the Members of Load-Bearing Frames

By Albert Smith

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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. 1911 Excerpt: .of vertical components, the direction of the vertical component becomes known, the direction of the total stress in the diagonal becomes evident. Since the algebraic sum of the external forces on either side of a given section is the shear at that section of a beam or truss, the vertical component of the diagonal stress, in trusses with parallel chords, is equal to the shear, and shear x Sec. 6 is the general expression for the stress in such diagonals. Stresses in Verticals. Fig. 149 shows a free body cut off from the truss, from which the stress in U2 L2 can be found. Since the sum of the vertical components of all forces on the free body equals zero, we can write: $-5/3P - S_4 = 0$ from which S_4 can be found. The hip vertical J can not be cut by a plane passing en- tirely...



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