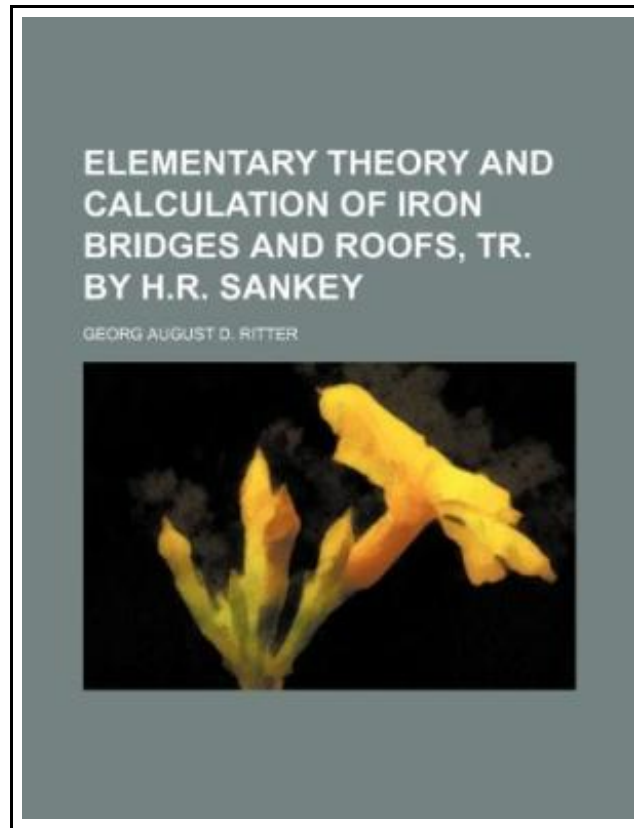


## Elementary Theory and Calculation of Iron Bridges and Roofs, Tr. by H.R. Sankey (Paperback)



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### ***Reviews***



*This publication might be well worth a study, and much better than other. It is among the most awesome book i have got study. You may like the way the article writer publish this publication.*  
*(Dr. Paige Bartell)*

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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. 1879 Excerpt:  $\therefore 0 \cdot f \ 8$  whence the following values for  $j$  and  $-j$  are obtained:  $l-j = 0 \cdot 3924$ ;  $10$  or the lengths  $A \ C$  and  $C \ E$  must be approximately in the ratio  $0 \cdot 4$ :  $0 \cdot 6$ , or  $2$ :  $3$ . By substituting the value of  $x$  from equation  $8$  in equation  $7$ , the quantity of material in the horizontal boom from  $A$  to  $E$  is obtained:  $M+M, = 0 \cdot 47184 \cdot 11 \text{ fc.}$  Subdivision of the Side Spans. The quantity of material  $J$  in the horizontal boom  $DP$  (Fig. 305) can be found by substituting  $z$  for  $x$  in equation  $5$ , thus: And  $J_1$  the amount of material in  $B \ D$ , can be obtained from equation  $6$  by writing  $7t$  for  $l$  and  $z$  for  $x$ . The quantity of material in the horizontal boom from  $B$  to  $G$  is therefore Or, in other words, the first differential coefficient of the expression in brackets of equation  $7$  must be equated to zero. If  $z \ A$  is written for  $z$ , the terms in brackets are increased by the expression  $A (-4a + 8a + Gz) + A (4a + 6z)^2 A5$ ; and as before the value of  $z$  that makes  $2 J-f-Jl$  a minimum can be found from the equation  $a-z /$ , is obtained. By substituting in equation  $14$  the value found for  $z$  in equation  $16$ , the least quantity of material in the boom from  $B$  to  $G$  is found to be  $2J + J, = 0 \cdot 16706 \cdot 19 \text{ c.}$  Proportion of...

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