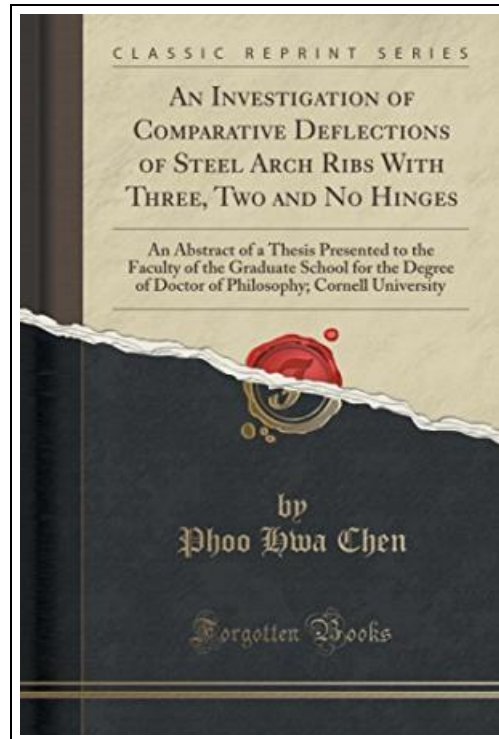


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(Prof. Maudie Ziemann)

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Forgotten Books, United States, 2016. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from An Investigation of Comparative Deflections of Steel Arch Ribs With Three, Two and No Hinges: An Abstract of a Thesis Presented to the Faculty of the Graduate School for the Degree of Doctor of Philosophy; Cornell University An investigation of the comparative deflections of steel arch ribs is a very complicated problem. The design of a three-hinged arch is not affected by temperature nor by rib-shortening. The effect of temperature and rib-shortening on arches with two or no hinges varies for different ratios of rise to span. Finally, different designers may assume different ranges of temperature and percentages of over-stress. Realizing these complications, the writer paid special attention to finding the easiest methods of computation for the benefit of future investigators, rather than to compute only the value for deflection. The general process of finding the easiest methods of computation used in this thesis is to analyze general equations into a number of contributing factors; then to treat each factor separately. The advantages of this process are: (i) each factor may have a very simple solution; (2) it gives the computer a clearer conception of the problem; (3) it offers an opportunity to study the relative importance of different contributing factors and to neglect some of the factors; (4) it may suggest the easiest solution by omitting certain negligible factors. The special features of this thesis are: (i) the method of stress computation for the three-hinged arch; (2) the method of computing deflections for the three-hinged arch; (3) the method of computing deflections due to axial thrust for two and no hinged arches; (4) the assumption of moment of inertia for the preliminary...



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