



Graphical statics. Two treatises on the graphical calculus and reciprocal figures in graphical statics.

By Luigi Cremona

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Excerpt: . . . crooked line AabcdeC, we draw IV parallel to ca s cc dV fljr gcr r till each intersects the side Aa, eB Cd and now the whole polygon Aabcde C012345 is reduced to the equivalent quadrilateral ABCD. 103. This is the easiest and most convenient way of finding the areas of figures, the perimeters of which take the most different forms. With a little practice we learn to perform the reduction quite mechanically, and without paying any attention to the actual form of the proposed circuit. This construction moreover permits us to take account of signs, so that in dealing with areas of different signs, the result gives the actual sign belonging to their sum without further a trouble. Take, for example, the self-cutting circuit (Fig. 90) ABC01234, which represents the cross section of an embankment and excavation in earthwork. Fig. 90....

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