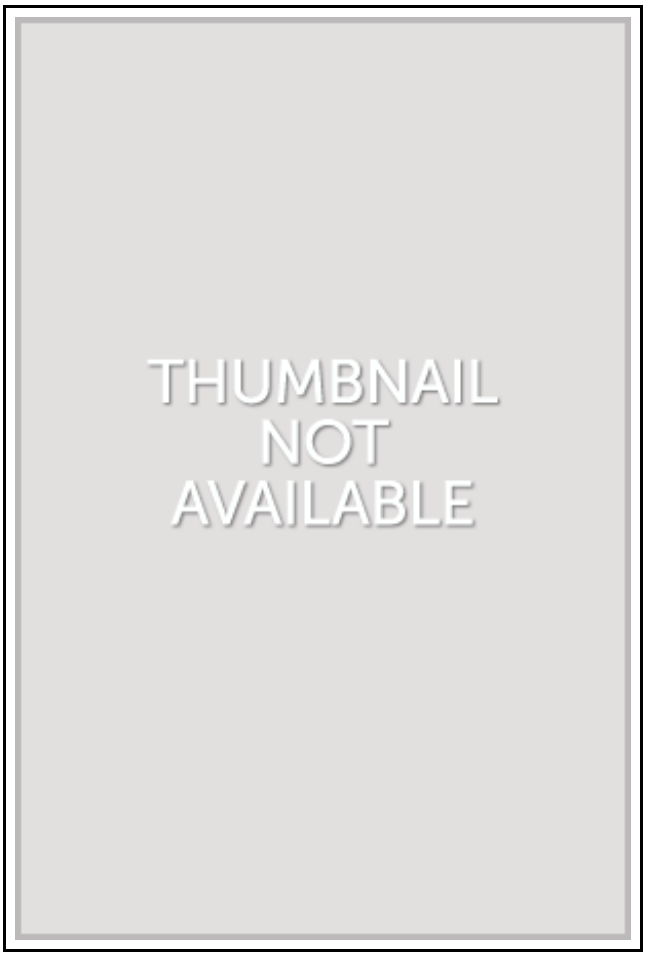
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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1828 Excerpt: .are respectively equal to those of the latter. Whence the figure FGHIK is similar to the given figure. Cor. Hence similar rectilineal figures may be divided into corresponding similar triangles. PROP. XVI. THEOR. Of similar figures, the perimeters are proportional to the corresponding sides, and the areas, to their squares. Let ABCDE and FGHIK be similar polygons, which have the corresponding sides AB and FG; the perimeter, or linear boundary, ABCDE is to the perimeter FGHIK, as AB to FG, BC to GH, CD to HI, DE to IK, or EA to KF; but the area of ABCDE, or the contained surface, is to the area of FGHIK, in the duplicate ratio of those homologous terms, or of AB to FG, of BC to GH, of CD to HI, of DE to IK, or of EA to KF. For, by drawing the diagonals AC, AD in the one, and FH, FI in the other, these polygons will be resolved into similar triangles. Whence the several analogies AB: BC:: FG: GH, BC: AC:: GH: FH, AC: CD:: FH: HI, CD: AD:: HI: FI, and AD: DE:: FI: IK; wherefore, by equality and alternation, AB: FG:: BC: GH:: CD: HI:: DE: IK:: AE: FK, and consequently (Introd, Prop. 8.) as one of the antecedents AB, BC, CD, DE or AE, is to its consequent FG, GH, HI, IK or FK, so is the amount of all those antecedents, or the perimeter ABCDE, to the amount of all the...

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