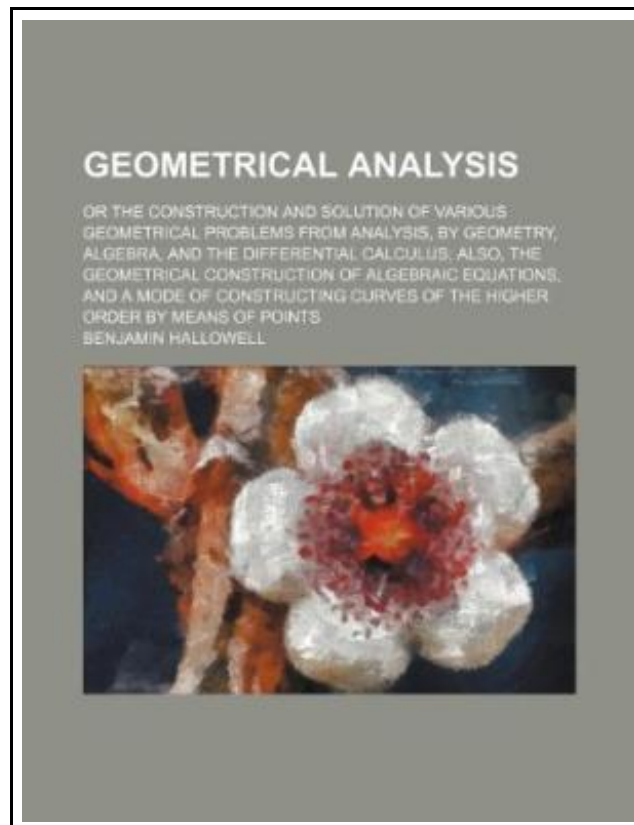


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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1872 Excerpt: . to DE, and through G, where the circumference cuts AO, draw HG perpendicular to BC or DE; then GI is the diameter of AIEGD; DP = PE, arc DG = GE, and OG x GA = HG GI. Whence this Construction.--On the given tangent DE (III. Prob. 16) describe a circle such that the segment DAE shall contain the given III. 33. angle. Bisect DE by the diameter IPG, which produce until PH= the given radius. Draw BHG parallel to DE. On A O (Fig. 2), equal to the given line AO, describe a semicircle of which if is the centre; draw the radius MJ perpendicular to A O ; lay MN a mean proportional between HG and G1. Draw NK parallel to A O , and KG parallel to MJ; then A O x G O, = G K² = MN² HG x GI. Apply G O from G to O in BG, and produce OG to meet the circumference in A. Draw ADB, AEG; let fall the perpendicular OF on DE, and with centre O and radius OF describe the circle O, FL, to which the line DFE will be tangent. Demonstration.--It remains to show only that AG--A G . Join AI; then, in similar triangles GAI and GHO, GH: GO:: GA: GI; hence GO x GA (or G O X 0.4) = O/ X 0# (by construction) (c) 0 x G A . Hence 0.4 = G A and 0.4 = OM . Galculation.--OH...



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