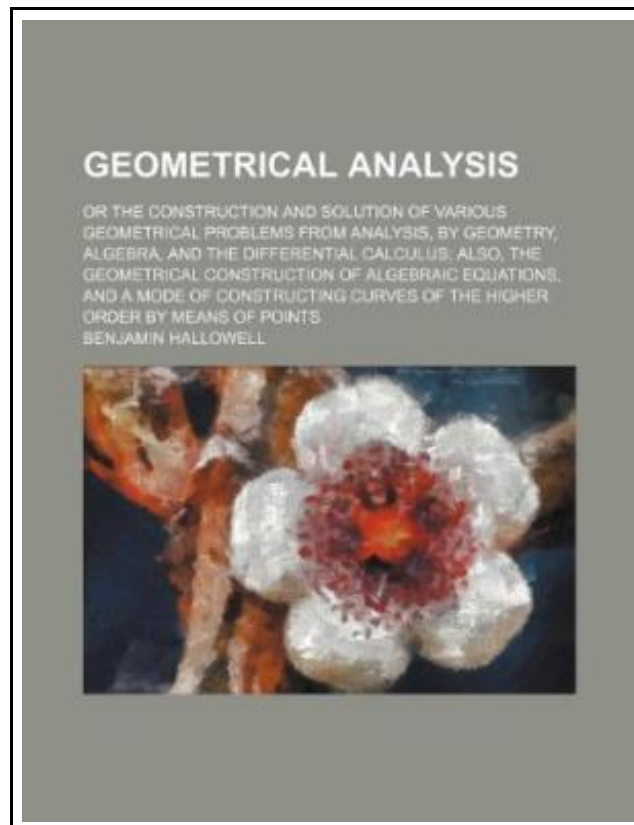


Geometrical Analysis; Or the Construction and Solution of Various Geometrical Problems from Analysis, by Geometry, Algebra, and the Differential Calculus; Also, the Geometrical Construction of Algebraic Equations, and a Mode of Constructing Curves



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Reviews

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(Morris Schultz)


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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 $OG \times GA = HG \cdot GI$. Whence this Construction.--On the given tangent DE (Ill. Prob. 16) describe a circle such that the segment DAE shall contain the given Ill. 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 $A O \times G O = G K^2 = MN^2 = HG \times GI$. 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 $GO \times GA$ (or $G O \times 0.4 = O / X 0 \neq$ (by construction) (c) $0 \times G A$. Hence $0.4 = G A$ and $0.4 = OM$. Calculation.--OH...

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