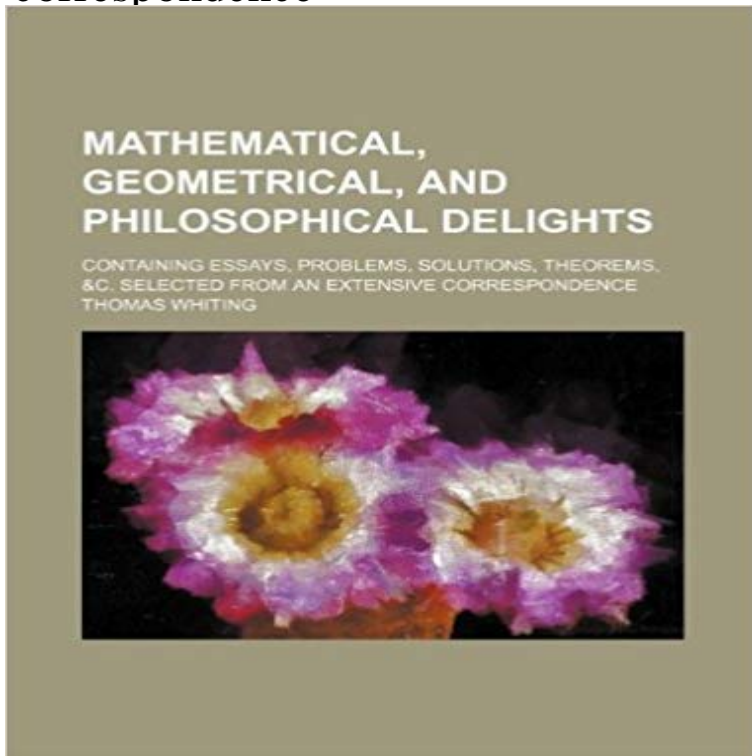


Mathematical, geometrical, and philosophical delights; containing essays, problems, solutions, theorems, &c. selected from an extensive correspondence



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. 1798 Excerpt: ... is two-thirds of either of these lines from the angular points that is CG is two-thirds of CF , or AG is two-thirds of AE . PROPOSITION III. To find the Center of Gravity of a given Trapezoid. Rule--Divide the given Trapezoid $ABCD$ (Fig. 14.) into two triangles ADB and BCD and find the center of gravity of each by the last proposition, which will be I and H , bisect the two parallel sides AB and DC in F and G and draw the line FG , then draw the line HI , and where this line cuts the line FG as at K is the center of gravity of the given trapezoid. Or by this method, having divided the trapezoid into two triangles as before, and find the center of gravity of each, and also drawn the line HI joining these centers, then as the area of the trapezoid: the line HI :: the area of the triangle ADB : IK , which gives K the center of gravity as before. PROPOSITION IV. To find the Center of Gravity of a given Trapezium. Rule--First divide the given trapezium $ABCD$ (Fig. 15.) into two triangles by drawing the diagonal AC then find the center of gravity of the triangle ABC by Prop. II. which is at E , also find the center of gravity of the triangle ADC by the same Prop, which is at F , and draw the line EF . Draw the diagonal BD , and in like manner find the center of gravity of the triangle DCB which is at H , and of the triangle DAB , which is at G , then draw the line GH , and where this line intersects the line EF as at I , is the center of gravity of the given trapezium. The latter Rule of the last Prop, will hold equally true for this, for it will be as the area of the trapezium: the line GH :: the area of the triangle DAB : HI , which give I the center of gravity as before. PROPOSITION V. To find the Center of

Gravity of any given irregular Polygon.
Ru.lt. Divide the given poly...

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