An Elementary Treatise on the Differential and Integral Calculus; With Numerous Examples

By Edward Albert Bowser

Rarebooksclub.com, United States, 2013. 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 usually download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1883 edition. Excerpt: . Find in the line joining the centres of two spheres, the point from which the greatest portion of spherical surface is visible. The function to be a maximum is the sum of the two zones whose altitudes are AD and ad; hence we must find an expression for the areas of these zones. Put CM = E and cm = r, Cc = a and CP = x. The area of the zone on the sphere which has R for its radius (from Geometry, or Art. 194) = 2ttrad = 27rR--2: rBCD = 27T (R2-1, and in the same way for the other zone, from which we readily obtain the solution. Rf Rt + r 24. Find the altitude of the cylinder inscribed in a sphere of radius r, so that its whole surface shall be a maximum. CHAPTER IX. TANGENTS, NORMALS AND...

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