



Elementary Pure Geometry with Mensuration; A Complete Course of Geometry for Schools (Paperback)

By Edwin Budden

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. 1904 Excerpt: .the sphere in a great circle--e.g. line of longitude. Great circles can be moved about on a sphere just as straight lines on a plane; and one only can be drawn between two points, unless these are opposite ends of a diameter of the sphere. The area of a sphere is four times the area of a great circle; i.e. area = $4\pi r^2$. Volume Of A Sphere. If the sphere is divided into small pyramids by planes through the centre, the volume of a pyramid is area of base x altitude (radius). And the volume of the sphere--i.e. the sum of the pyramids--is that of a pyramid whose base is the surface of the sphere, and altitude the radius; thus-- The volume of a sphere is one-third the product of radius and surface; i.e. vol. of sphere = $\frac{4}{3}\pi r^3$. Ex. 1. Calculate the surface and volume of...

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