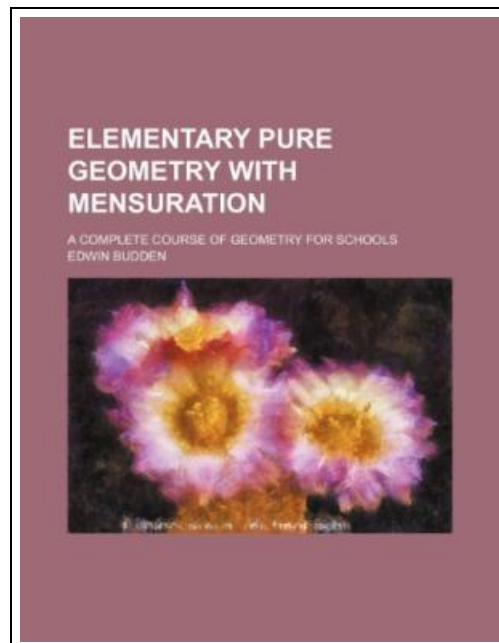


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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 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.  $\text{area} = 4\pi r^2$ . Volume Op 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.  $\text{vol. of sphere} = \frac{1}{3} \times \text{surface} \times \text{radius}$  Ex. 1. Calculate the surface and volume of spheres of radii 2 cm., 1-6, 5 ft. Ex. 2. Taking a degree as 69-12 miles, calculate the earth s circumference (length of a great circle). Ex. 3. Taking the earth s radius as 3960 miles, calculate its circumference, and its area. The proof is given below, Ch. IX. EXAMPLES--XXVIII. 1. Calculate the volume of a room 24 ft. long by 18 ft. wide and 12 ft. high. 2. Calculate the area of a box 33 by 16 by 18. 3. Calculate the volume of a pile of books 100 deep, each book 84 by 6 by 4. How much...



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