



## Practical mathematics for the engineer and electrician

By Elmer Ellsworth Burns

RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 28 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. 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. 1912 Excerpt: . . . feet, w 6 feet and v 168. --Answer, h 4 feet. 4. In the equation  $a = wr^2$ , if  $r = 2$  feet, what does  $a$  equal--Answer,  $a = 12$ . 5664 square feet. 5. In the equation  $c = 2 \pi r$ , if  $r = 2$ , what does  $c$  equal--Answer,  $c = 12$ . 5664 feet. We have learned that we can find the volume of a circular tank by multiplying the area of the base by the height. Now, the equation for the area is as we have just seen:  $a = \pi r^2$ . Therefore, if  $v$  is the volume and  $h$  the height,  $v = a \times h$ , or  $ah$ , which equals  $\pi r^2 h$ . Since  $a = \pi r^2$ , multiplying  $a$  by  $h$  is the same as multiplying  $\pi r^2$  by  $h$ . So we say  $ah = \pi r^2 h$ . Hence  $v = ah = \pi r^2 h$ . 6. Using the above equation, find the capacity of a...



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