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# The Elements of Electrical Transmission; A Text-Book for Colleges and Technical Schools

By Olin Jerome Ferguson

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. 1911 Excerpt: .for unit potential will, therefore, be  $Q = \frac{1}{C} = \frac{T}{d-r} = \frac{2Q}{\log \frac{r}{J}}$  log. Again, where  $d$  is large compared to  $r$ ,  $d-r$  may be considered as equivalent to  $d$ . Hence, we may for ordinary aerial lines, use  $C =$  electrostatic units.  $d = 2 \log \frac{r}{J}$  If we change our system of units to the electromagnetic units and let  $C =$  capacity in microfarads of one conductor in respect to the neutral plane,  $d =$  interaxial distance between conductors,  $r =$  radius of wire, logs are taken to base 10, then,  $0.241, \dots -C$  per cm. of wire.  $\log r = 0.013, \dots -10 -u$  per in. of wire.  $\log r = 38780, \dots -10 -C$  per mile of wire.  $\log r = 0.03878, \dots -C$  per mile of wire.  $\log r$  The capacity of the circuit (consisting of two wires) for each of these...



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