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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 $Q \frac{1}{C} = T \frac{d-r}{2Q} \log_e \frac{r}{J} \frac{2}{\log}$. 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. $d \frac{2}{\log} r$ 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, $0.241, \cdot 10^{-10} -C$ per cm. of wire. $\log r 0.013. \cdot 10^{-10} -u$ per inen of wire. $\log r 38780. \cdot 10^{-10} -C$ per mile of wire. $\log r 0.03878. or - = C$ per mile of wire. $\log r$ The capacity of the circuit (consisting of two wires) for each of these...



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