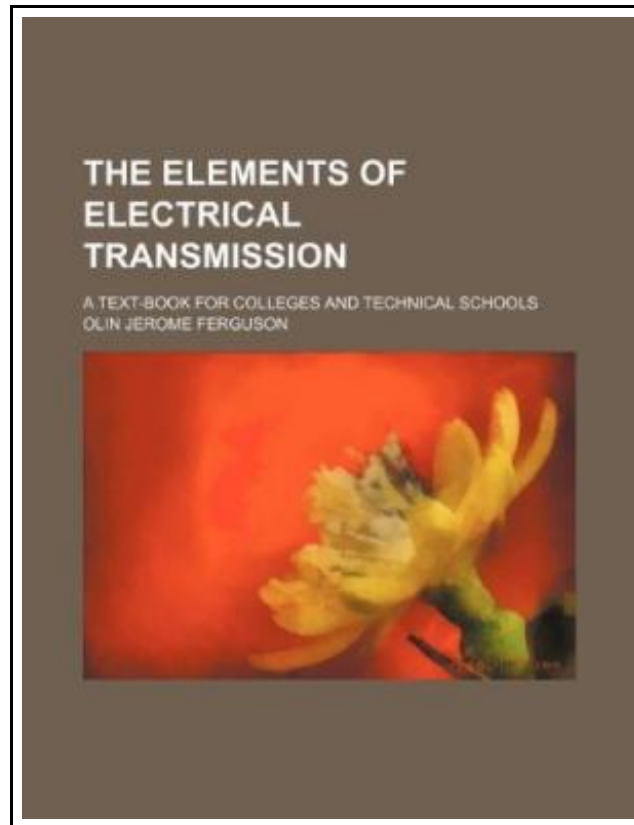


The Elements of Electrical Transmission; A Text-Book for Colleges and Technical Schools



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Reviews

This pdf is so gripping and intriguing. I could comprehend almost everything using this composed ebook. You are going to like just how the article writer create this ebook.
(Miss Dakota Zulauf)

THE ELEMENTS OF ELECTRICAL TRANSMISSION; A TEXT-BOOK FOR COLLEGES AND TECHNICAL SCHOOLS



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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. 1911 Excerpt: .for unit potential will, therefore, be $Q = \frac{T}{d-r} = \frac{2Q}{d-r} \log \frac{r}{J}$. 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. $d \log \frac{r}{J}$ 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, $0.241, \cdot 10^{-10}$ --C per cm. of wire. $\log r$ 0.013. $\cdot 10^{-10}$ --u per in. 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 respective lengths will be half the above quantities, as we may consider that there are two line-to-neutral capacities placed in series across full potential. Hence, we may consider the line as having a certain capacity per line referred to line-to-neutral voltage or as having one-half that capacity referred to line-to-line voltage. With a three-phase, three-wire system, the capacity of each wire to neutral is represented by the formula) as above given for line-to-neutral with two wires. The distance between wires is still given as d . That is, the equilateral triangle is of side d . This may be proven analytically or...



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