



Proceedings of the Electrical Section of the Franklin Institute Volume 1-3 (Paperback)

By Franklin Institute Section

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. 1892 Excerpt: .V, and there is no distinction to be made for insulation and energy. E2 = 2 C V (4) H2 = 2CR, (5) The alternating and three-phase are of same practical voltage when V = 2 V (6) Substituting (1) in (6) gives 2 V= 173 K (7) or K = 1154 v For comparing the cases where the same energy is to be transmitted with the same efficiency, we have to equalize (2) and (4); and this, with (7), gives C=i73C, (8) In the line, the currents are 173 times as large in alternating than in three-phase. Equalizing (3) and (5) gives, with (8), R3 = 2 R This means that the cross section of alternating line conductor is twice that of three-phase conductor, and that the total amounts of copper are as 4 for alternating to 3 for three-phase. This result, in combination with...



Reviews

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