



Standard Tables and Equations in Radio-Telegraphy

By Bertram Hoyle

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. 1919 Excerpt: .occurs. The absolute temperature of the air, the barometric height, the size and spacing of the conductors determines the p.d. that will start a corona. Let h = barometric height in inches. T = absolute temperature in degrees Fahrenheit (T= t-459-2) where t is the thermometer reading in degrees Farenheit. r = effective radius of conductor (see Table 31), i.e., the radius of the conductor + the depth of the weakest zone of atmosphere surrounding the conductor. r = radius of conductor in inches. I = distance apart of conductors in inches. Then Em.dX= 2-055r log10 Q x Bd x 1013 volts. T A simplification takes place if one takes air temperature 60 F. and barometer 30-00, again using Bd x 1010 as this occurs in the tabulated values.Emax= 2,125-5 r log10 (j)xBdx 1010 volts approximately. The above formulae are intended for similar parallel conductors between...



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