



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 Fahrenheit. 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. l = distance apart of conductors in inches. Then $E_m \cdot dx = 2.055r \log_{10} Q \times Bd \times 1013$ volts. T A simplification takes place if one takes air temperature 60 F. and barometer 30.00, again using $Bd \times 1010$ as this occurs in the tabulated values. $E_{max} = 2,125.5 r \log_{10} (j) \times Bd \times 1010$ volts approximately. The above formulae are intended for similar parallel conductors between...



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