



# Notes on Fundamentals of Telephone Transmission REV. February 17, 1921, Superseding Draft of October 4, 1920

By American Telephone and Research

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. 1921 Excerpt: .one of which has an admittance, - G + JB, and the other of which has an admittance, Y2 G2 + JBg, the total admittance, Y, of the combination is the vector sum of the two admittances Yj and Y2. Y.Y1+Y2 (167) G1 + 2 + J(B1 + B2) (168) This relation can be stated generally that When several impedances are in parallel, the total admittance of the combination is the vector sum of the separate admittances. 7, Resonance. In an a.c. circuit having both capaoty and inductance in series, the reactance iszero whenever the capacity reactance ie equal in magnitude to the inductive reactance, that is, when X = Xq as can be seen from equation (136- b). The frequency at which this occurs is called the resonant frequency. At resonance the impedance has a minimum value and is equal to the resistance of the...

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