

Transmission Line Design Handbook

By Brian C Wadell

Skin effect resistance is assumed to be equal to the reactance of the internal inductance. 0199511845 Gupta gives a general equation with partial derivatives replacing the difference of inductance.... 0199511845

Wheeler incremental inductance rule (3 ed. (1991), Transmission Line Design Handbook, Artech House, ISBN 0-89006-436-9 Paul, Clayton The incremental inductance rule, attributed to Harold Alden Wheeler by Gupta and others is a formula used to compute skin effect resistance and internal inductance in parallel transmission lines when the frequency is high enough that the skin effect is fully developed. Wheeler's concept is that the internal inductance of a conductor is the difference between the computed external inductance and the external inductance computed with all the conductive surfaces receded by one half of the skin depth.), Artech House,

ISBN 978-1-60807-535-5 Wadell, Brian C 0199511845

$R_{skin} = \omega L_{internal}$. 0199511845 $L_{internal} = L_{external}(\text{conductors receded}) - L_{external}(\text{conductors not receded})$. 0199511845

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