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ANTENNA THEORY AND DESIGN . 2013 . Om P. Gandhi . Text: Warren L. Stutzman and Gary A. Thiele, *Antenna Theory and Design, Third Edition* (2013), John Wiley & Sons. The identified page numbers and the equations with dashes (x-xxx) refer to the equations of the text.

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math is avoided throughout. The fundamentals of antenna theory requires that the antenna be "impedance matched" to the transmission line or the antenna will not radiate. The concept of VSWR is introduced as a measure of how well matched an antenna is. Bandwidth. The bandwidth of an antenna is the frequency range over which the antenna radiates.