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Consider a transmission line of characteristic impedance 50 ohm s and the line is terminated at one end by +j50 ohms, the VSWR produced in the transmission line will be (A)

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Hence, transmission lines are needed within circuits. The earliest type of planar transmission line was conceived during World War II by Robert M. Barrett. It is known as stripline, and is one of the four main types in modern use, along with microstrip, suspended stripline, and coplanar waveguide.

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Waveguides are a special form of transmission line used for microwave applications. They are metallic tubes made often of high quality material (copper, brass - partially silvered or gold plated even). In the latest technology these waveguides are produced as electrically copper plated very light carbon fiber composites.

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The transmission line is a conductor or wire which is designed to carry electrical energy below microwave range from one place to another. Transmission lines are two or more conductors separated by some insulating medium (two-wire, coaxial, microstrip, etc). Circuit theory is considered in transmission line. Power handling capacity is low.

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