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**TEACHING NOTES**

**Department:** ELECTRONICS & COMMUNICATION ENGINEERING

**Unit:** II

**Date:**

**Topic name:** Loop Antennas - 1

**No. of marks allotted by JNTUK:**

**Books referred:** 01. Antennas for All Applications by John D. Kraus & Ronald J. Marhefka  
 02. Antenna & Wave Propagation by K. D. Prasad  
 03. [www.wikipedia.org](http://www.wikipedia.org)

**Loop Antennas:**  
 A loop antenna has a continuous conducting path leading from one conductor of a two-wire transmission line to the other conductor. All planar loops are directional antennas with a sharp null, and have a radiation pattern similar to the dipole antenna with E and H fields interchanged.

**Small Loops:**  
 A loop is considered a small loop if it is less than 1/4 of a wavelength in circumference. Most directional receiving loops are about 1/10 of a wavelength. The small loop is also called the magnetic loop because it is more sensitive to the magnetic component of the electromagnetic wave. As such, it is less sensitive to near field electric noise when properly shielded. The received voltage of a small loop can be greatly increased by bringing the loop into resonance with a tuning capacitor.

From considerations of symmetry, equal voltages will be induced in each limb of the loop when a signal arrives along the loop axis. The loop output, which is the difference between the limb voltages, is therefore zero in all cases. For signals arriving in the plane of the loop, there is a phase difference between the limb voltages and this produces a maximum output for the small loop.

**Medium Loops:**  
 There are two special cases of loop antennas which are neither short nor long, and have particular characteristics:  
 Half-wavelength loop, a half-wave dipole curved into a circle, can be mounted in the horizontal plane as a horizontally polarized omnidirectional antenna.  
 Full-wavelength loop, an element of the quad antenna, which radiates on its axis (unusual for a loop) and is polarized according to the position of the feed point.

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