## **Example Antenna Types**

Introduction

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## Sources

The material presented herein is from the following sources:

"Elements of Electromagnetics," by Matthew N.O Sadiku, 5<sup>th</sup> ed. (2010)

"Engineering Electromagnetics," by Nathan Ida, 3<sup>rd</sup> ed. (2015)

"Microwave Engineering," by David Pozar, 4th ed. (2012)

"Antenna Theory," by Constantine A. Balanis, 4th ed. (2016)

"Antenna Engineering Handbook," by John L. Volakis, 4th ed. (2007)

## Agenda

Antennas are engineered devices used to send and receive electromagnetic signals. Each antenna has a unique set of characteristics – frequency response, polarization, radiation pattern, etc. – which are set by its size and topology. It is important to know general characteristics of common antenna topologies, in order to choose the proper topology for any particular application. In this module, we will briefly introduce each of the following antenna topologies.

- Horn Antennas
- Yagi Antennas
- Slot Antennas
- Rectangular Patch Antennas



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