

《天线、阵列天线及新概念、新材料和新方法》

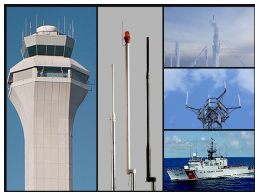
Antennas, Antenna Array and New Concepts, New Materials and
New Methods

Yang Jing

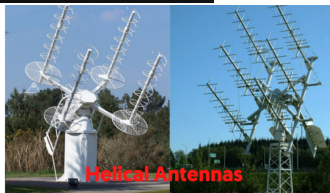
合肥师范学院
电子信息与电气工程学院

2023 年 1 月 9 日





Log-Periodic Antennas



Helical Antennas



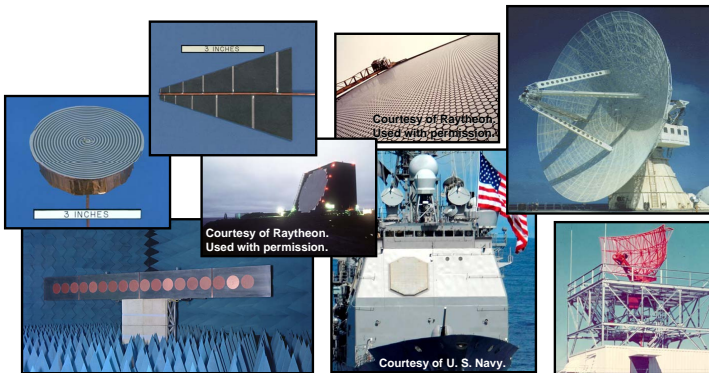
Figure 1. A picture of the all in reflector antenna.





Antenna Characteristics

- Accentuates radiation in some directions, suppresses in others
- Designed for both directionality and maximum energy transfer



Radar Antennas - 5
PRH 6/18/02

MIT Lincoln Laboratory





Antenna Definition

- “Means for radiating or receiving radio waves”^{*}
 - A radiated electromagnetic wave consists of electric and magnetic fields which jointly satisfy Maxwell’s Equations
- Transitional structure between guiding device and free space

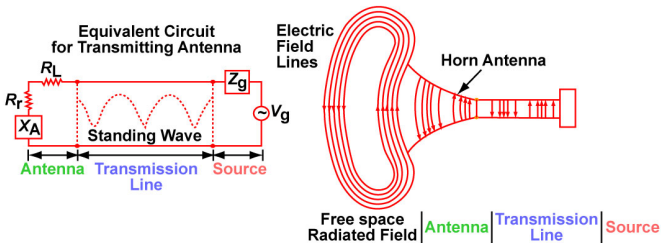
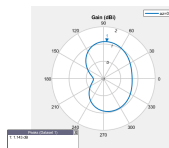
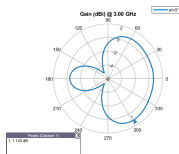
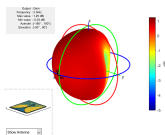
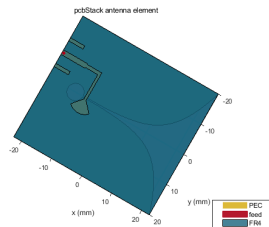
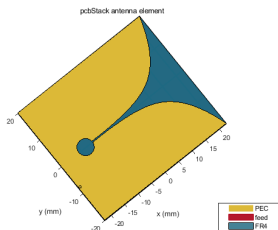
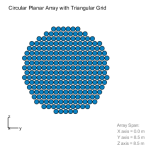
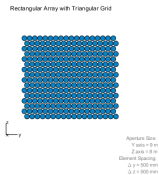
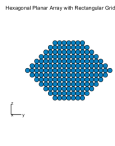
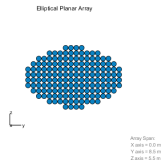
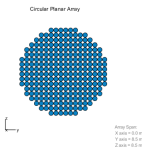
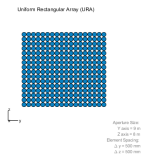
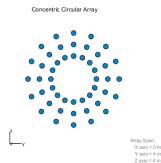
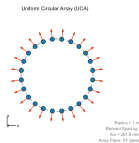
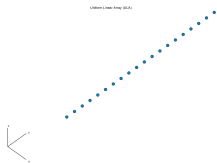
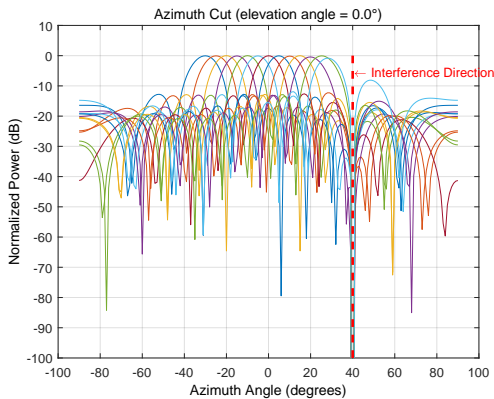


Figure by MIT OCW.









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