

Lecture 7

- Power transmission in rectangular wave guide

Power transmission in rectangular wave guide

- Power losses
 - A. Losses in dielectric
 - B. Losses in guide walls

Excitation modes in Rectangular waveguide

- TE₁₀
- TE₂₀
- T_m11
- T_m21

Circular wave guide

- TE mode in circular wave guide
- Advantages in circular wave guide

Numerical 1

- For the dominant mode of operation in an air filled circular wave guide of inner diameter 4cm find out

A cut of wavelength

Cut of frequency

Wavelength in the guide