

Your task is to describe and characterize waveguide modes. At the least, this should include equations and descriptions of the E and B fields in the waveguide and pictures, movies, models, or working devices to illustrate the mode. Also discuss the dispersion equation for the mode and present a graph.

Group 1: TE₁₀ Mode in Rectangular Waveguide

Torrel, Sol
Bussell, Steven E.
Holmes, Jeffery N.
Hathaway, Tom G.

Group 2: TE₁₁ Mode in Rectangular Waveguide

Shermer, Scott W.
Joiner, John C.
Nielson, Michael E.
Buhl, Christopher A.

Group 3: TE₂₁ Mode in Rectangular Waveguide

Williams, Kyle J.
Omundson, Joseph L.
McDonough, Sean M.
Cibula, Matthew A.
Carlsen, Christopher T.

Group 4: TM₁₁ Mode in Rectangular Waveguide

Stickel, Andrew D.
Wade, Murray A.
Pollard, Cory M.
Kibby, Shaun M.

Group 5: TM₂₁ Mode in Rectangular Waveguide

Quillan, Kyle F.
Brinkley, Steven J.
Gruss, Daniel S.
Dauenhauer, Alex Y.

Group 6: TE₁₀, TE₁₁, TM₁₁ Modes in Circular Waveguide (include charge and current distributions)

McCartney, Jessica D.
Alnefaie, Ahmed M.