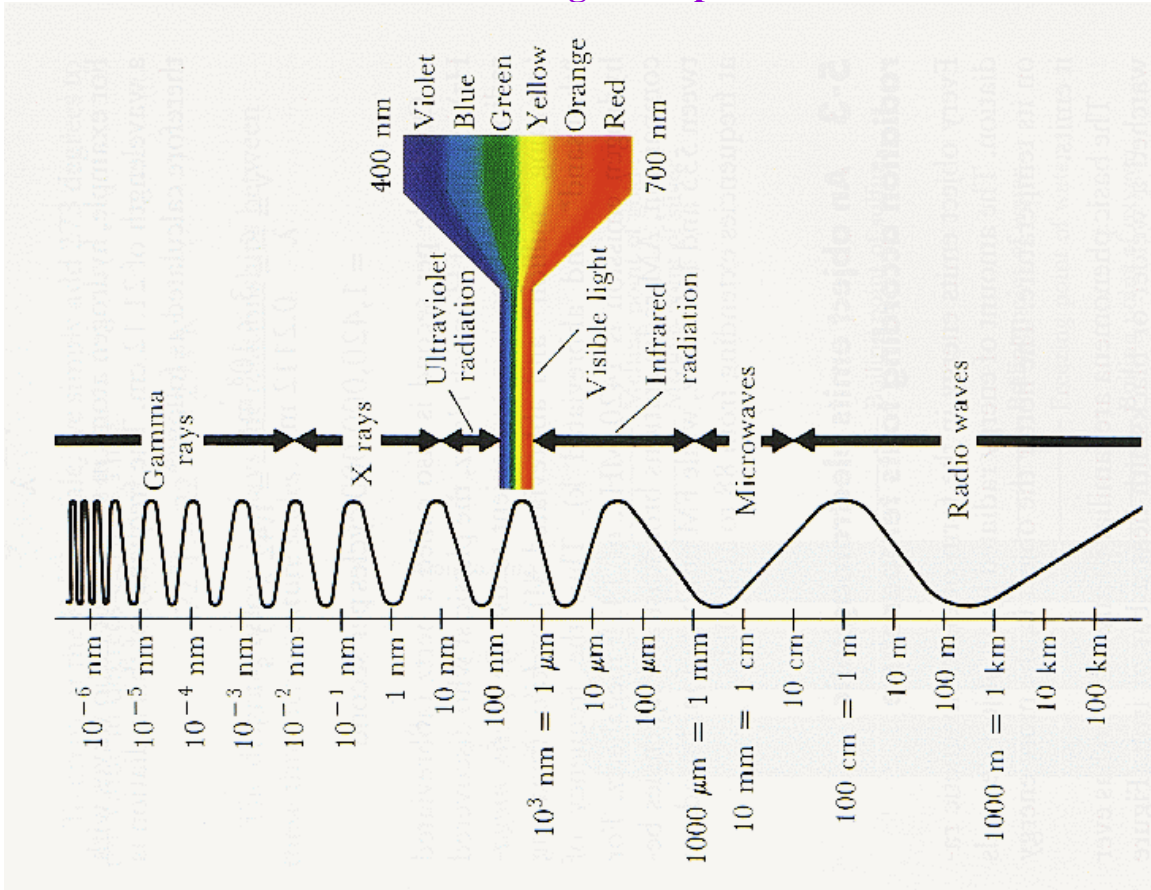
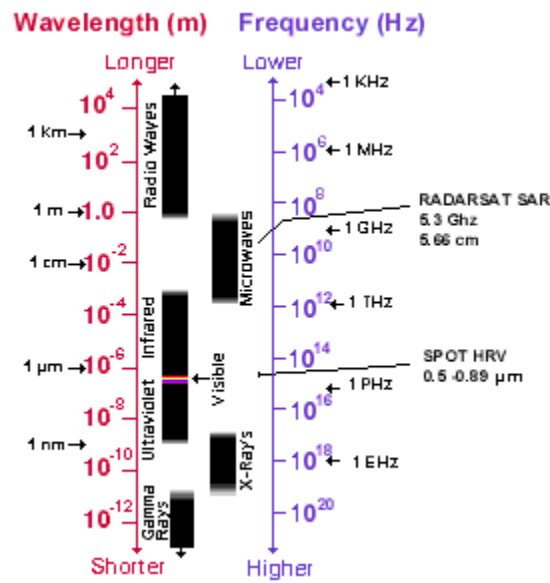


The Electromagnetic Spectrum



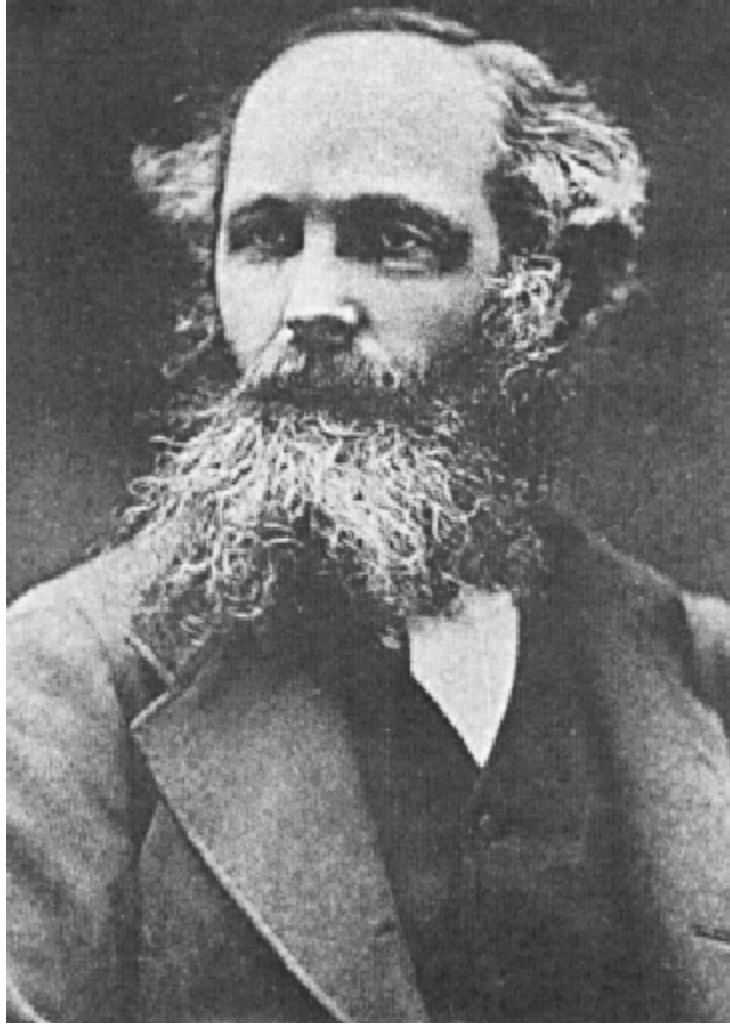
The Electromagnetic Spectrum: Wavelength vs. Frequency in Hertz (Cycles)



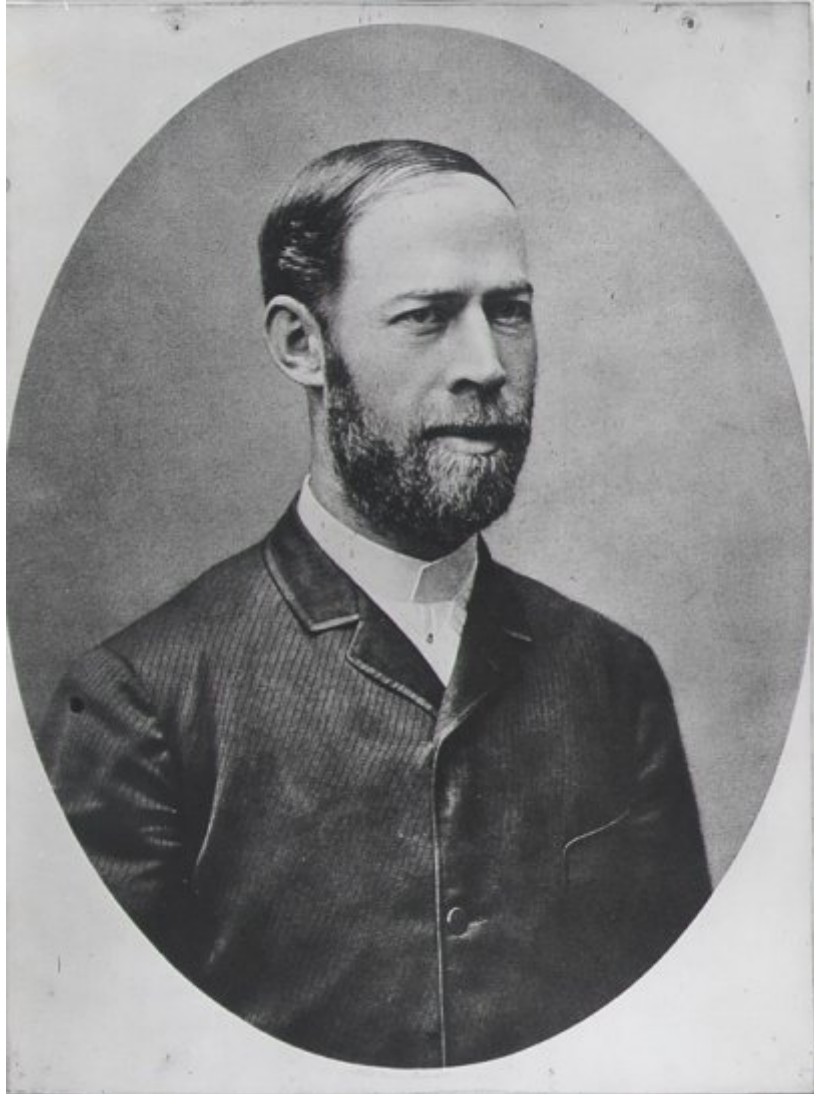
Michael Faraday (1791 - 1867)



James Clerk Maxwell (1831 - 1879)



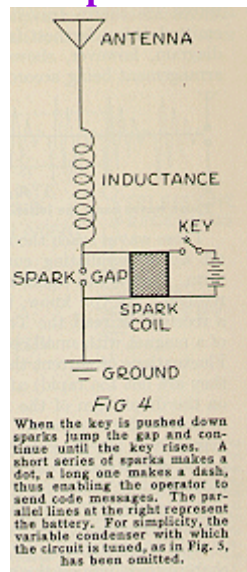
Heinrich Hertz (1857 - 1894)



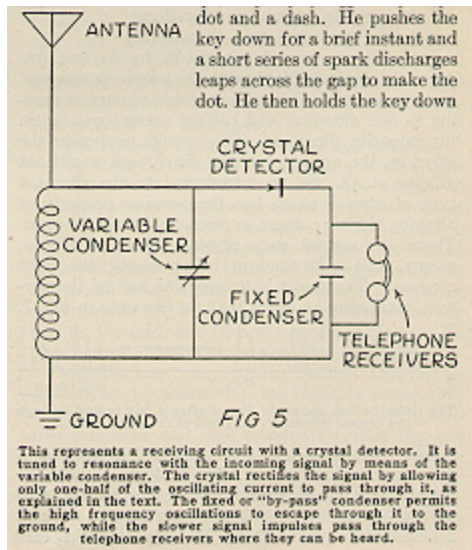
Guglielmo Marconi (1874 - 1937)



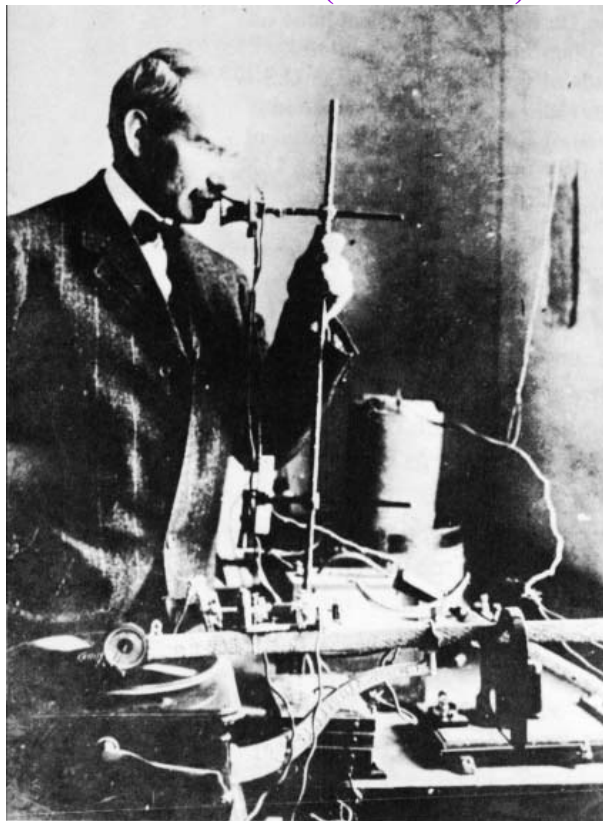
The Basic Spark Transmitter

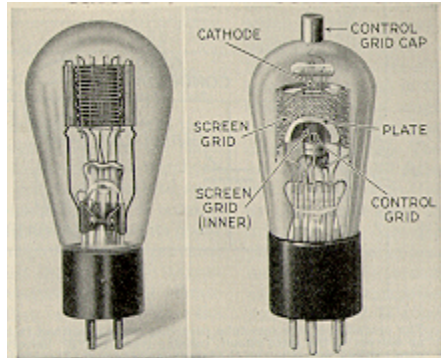
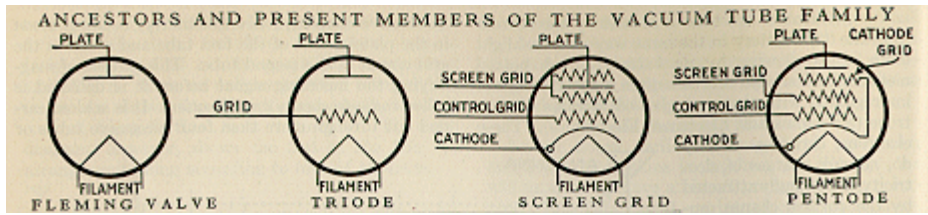


The Basic Receiver



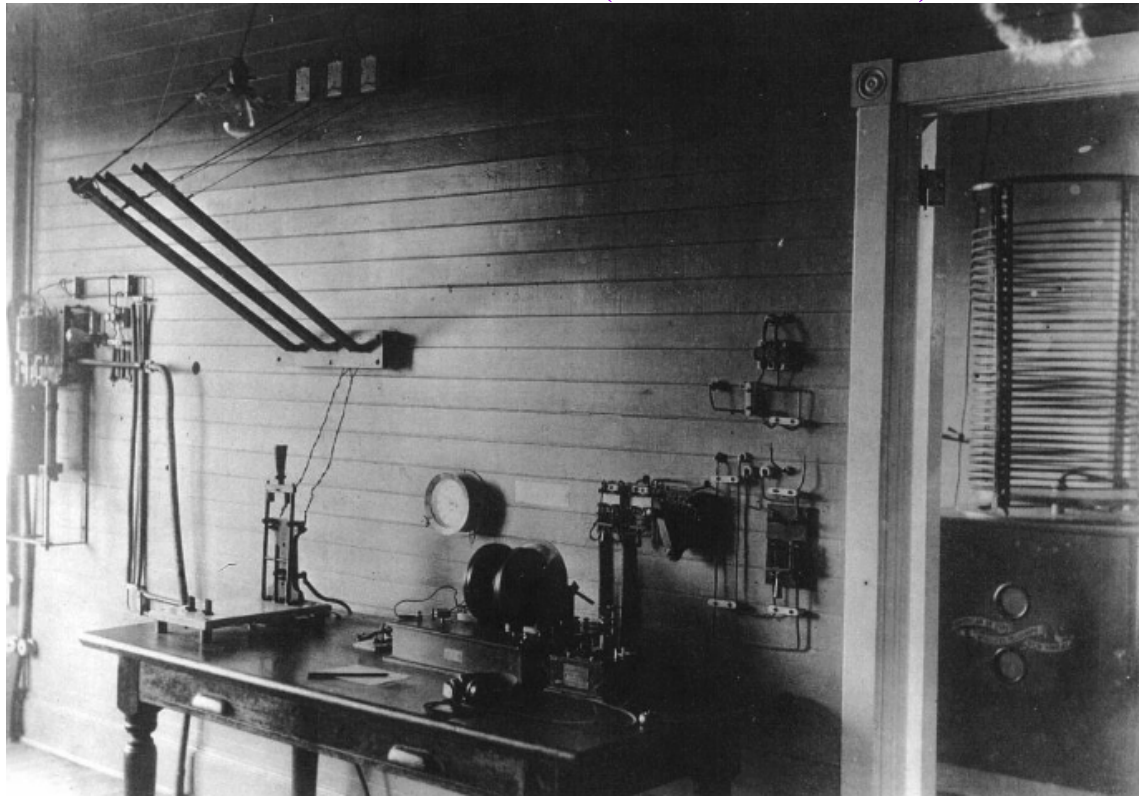
Lee De Forest (1873 - 1961)



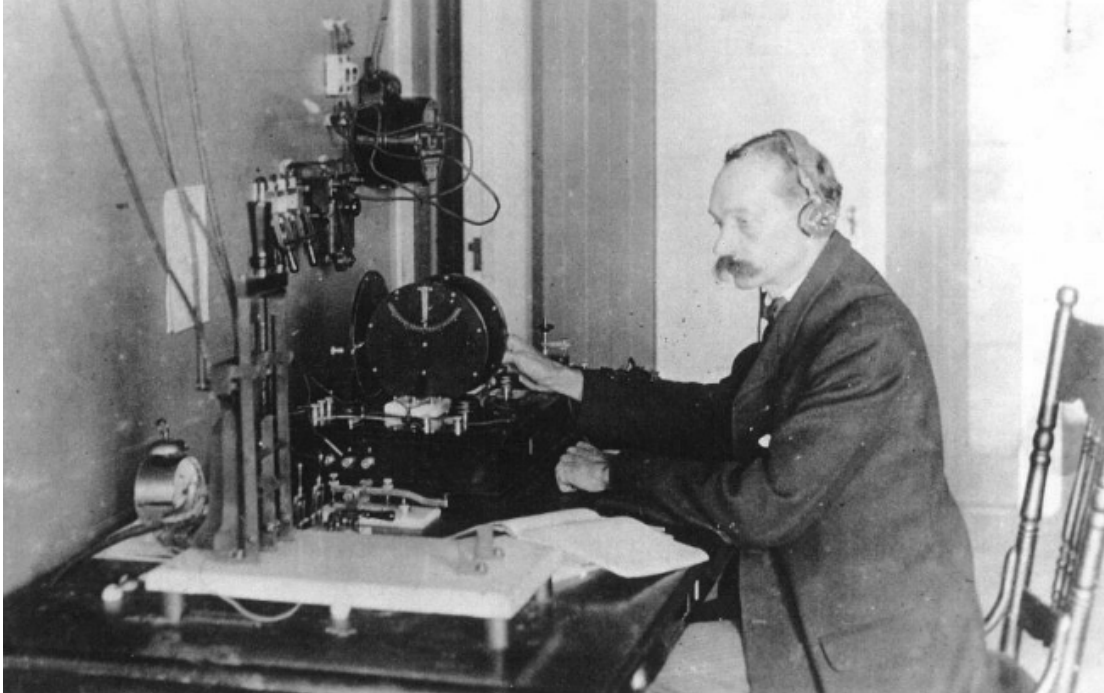


Vacuum tubes started with the Fleming valve at the upper left. The text explains how Lee De Forest added the grid, creating the triode or audion. A modern triode is shown immediately above at the left, with part of the plate broken away to show how the fence-like grid surrounds the M-shaped filament. Addition of a cathode gives the "screen grid," and of another grid, the "pentode." In these two tubes, the filament is simply a heater, and the cathode gives off the necessary electrodes. A screen grid tube is shown immediately above at the right.

1904 Radio Installation (Location Unknown)



1905 Radio Installation in Puerto Rico



Edwin Howard Armstrong (1890 - 1954)

