

Physics 12 Cathode Ray Tubes Section 17.10



1. The cathode ray tube is the basis for the first type of television. Cathode rays are electrons.
2. Electrons are accelerated through a large potential difference and impact on a screen which is coated with a fluorescent material. The result is a visible glow.
3. The cathode rays (electrons) are "cooked" (heated to the point of ionization) off the cathode and then attracted to the anode (positive terminal) through a potential difference of 5000 - 50000V.
4. Horizontal metal plates that are oppositely charged deflect the electron beam vertically and similar vertical plates deflect the beam horizontally.

