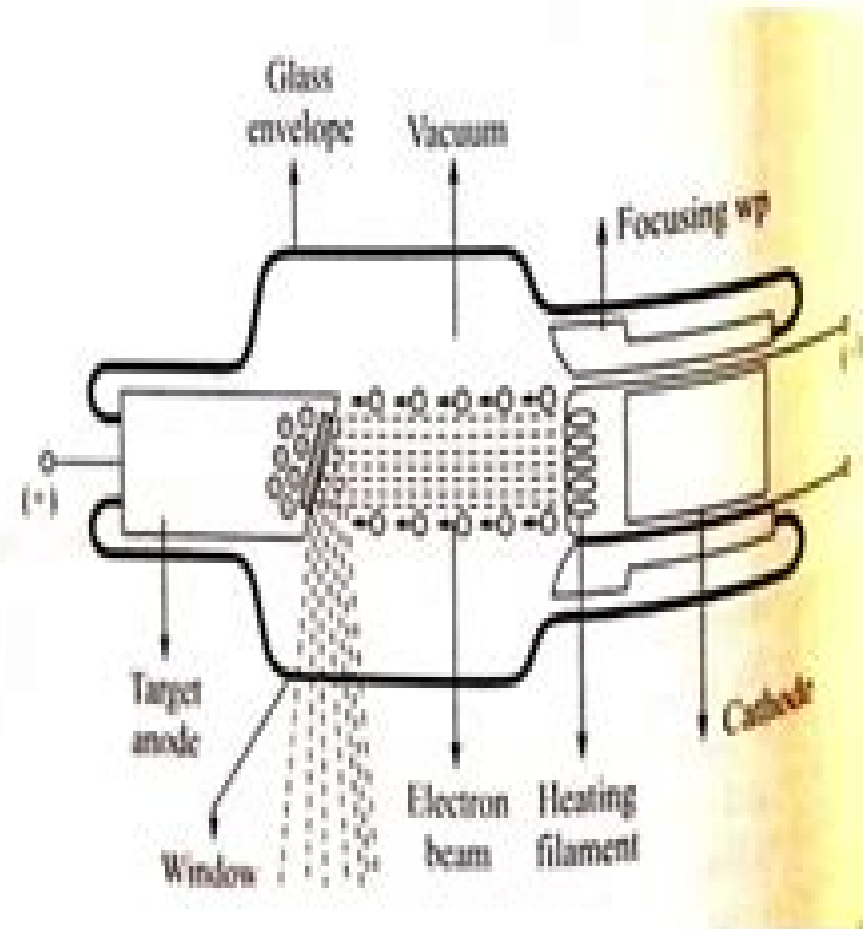


# X-ray Radiography Principle

- X-rays are produced when a high speed moving electron get collided with nucleus of an atom X-rays are produced in a X-ray tube which consist of a glass or ceramic envelope containing anode a positively charged electrode and cathode a negatively charged electrode, evacuated to an ultra high vacuum of  $10^{-9}$  hector pascal.
- Cathode act as a producer of electrons, when electrical tension setup between cathode and anode, these electrons are attracted by anode and get accelerated up.
- These electrons from cathode are concentrated into a beam by a focussing cup and when these electrons get collided with anode, a part of their energy is transformed into X-radiation called as X-rays.



# Radiographic Imaging Unit 3 Slides

**R Barnett**

A decorative red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the author's name.

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deep brain stimulation DBS have shown significant results in the treatment of addiction ranging from nicotine cocaine heroin to alcohol dependence Specifically research investigating the effects of neurofeedback on nicotine dependent patients showed that modulation of the anterior cingulate cortex can decrease smokers craving for nicotine In several studies decreased craving was found in alcohol dependent patients after TMS or tDCS stimulation of the anterior cingulate cortex or the dorsolateral prefrontal cortex Changing the behavior of neural networks either through the modulation of neural spiking or threshold of neural firing presents another dimension to rehabilitation through neural rewiring or neural smithing Neuromodulation through non invasive brain stimulation techniques have been used beyond the treatment of addiction The capability to modulate macro and micro brain networks through external stimulation have provided a long term rehabilitation approach to solving neurological issues such as tinnitus primary headaches poststroke gait disorders etc The initial goal is to seek new advances in non invasive brain stimulation techniques as a rehabilitation approach to solving neurological issues The second goal is to understand how external neuromodulation effects brain networks by modifying cortical excitability mimicking the long term depression LTD of synaptic plasticity and sliding of the modification threshold for increased excitation or long term potentiation LTP and decreased excitation or LTD as an example Computational and mathematical models have been used to capture how neuromodulation effects the brain through the modeling of brain networks and hubs neural networks mathematically represented as graphs comprised of nodes neuronal elements and edges their connections and advanced signal processing techniques      National Library of Medicine Audiovisual Catalog ,1978      *The Soviet Journal of Nondestructive Testing* ,1967      Nuclear Science Information of Japan. Oral Presentation ,1998      **Textbook of Veterinary Diagnostic Radiology - E-Book** Donald E. Thrall,2017-11-21 Selected for Doody s Core Titles 2024 with Essential Purchase designation in Veterinary Medicine Learn the latest advances in veterinary diagnostic radiology Textbook of Veterinary Diagnostic Radiology 7th Edition is a one stop resource covering the principles of radiographic technique and interpretation for dogs cats and horses Within this bestselling text high quality radiographic images accompany clear coverage of diagnostic radiology ultrasound MRI and CT User friendly direction helps you to develop essential skills in patient positioning radiographic technique and safety measures normal and abnormal anatomy radiographic viewing and interpretation and alternative imaging modalities This new edition has been thoroughly revised to include important advances in the field information about contrast media dental radiography and more Coverage of ultrasound imaging procedures such as the esophagram upper GI examination excretory urography and cystography helps in determining when and how these procedures are performed in today s practice Rewritten chapters on basic interpretation emphasizes radiography radiation safety superficial coverage of normal variants and will include more in depth information on the framework for interpretation An atlas of normal radiographic anatomy in each section makes it easier to recognize abnormal radiographic findings High quality radiographic images clarify key concepts and interpretation principles Up to date

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