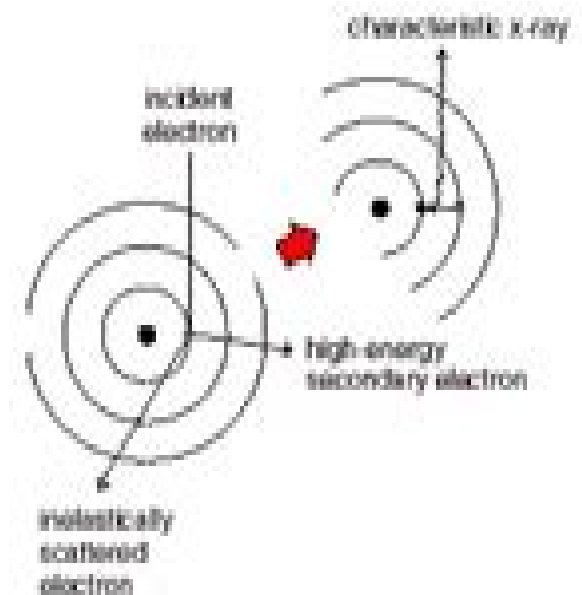


K-shell Emission Radiation

- Remember that atoms have their electrons arranged in closed “shells” of different energies. The K-shell is the lowest energy state of an atom.
- An incoming electron can give a K-shell electron enough energy to knock it out of its energy state.
- About 0.1% of the electrons produce K-shell vacancies; most produce heat. Then, a tungsten electron of higher energy (from an outer shell) can fall into the K-shell.
- The energy lost by the falling electron shows up as an emitted X-ray photon. Meanwhile, higher energy electrons fall into the vacated energy state in the outer shell, and so on.
- After losing an electron, an atom remains ionized for a very short time (about 10^{-14} second) and thus an atom can be repeatedly ionized by the incident electrons which arrive about every 10^{-12} second.
- Generally, K-shell emission produces higher-intensity X-rays than Bremsstrahlung, and the X-ray photon comes out at a single wavelength.



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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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