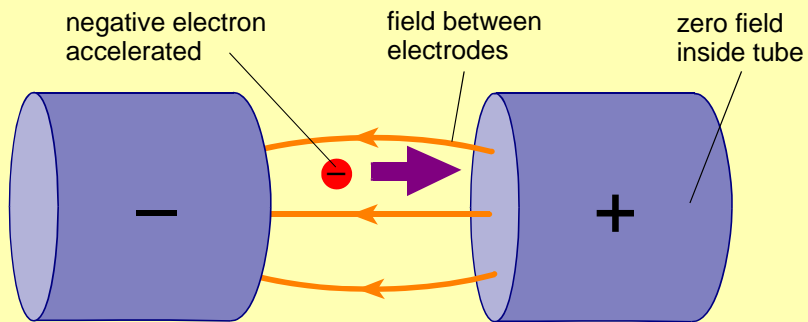


TAP 518- 3: The linear accelerator

This shows the principles of the linear accelerator, although not all of the engineering complexities.

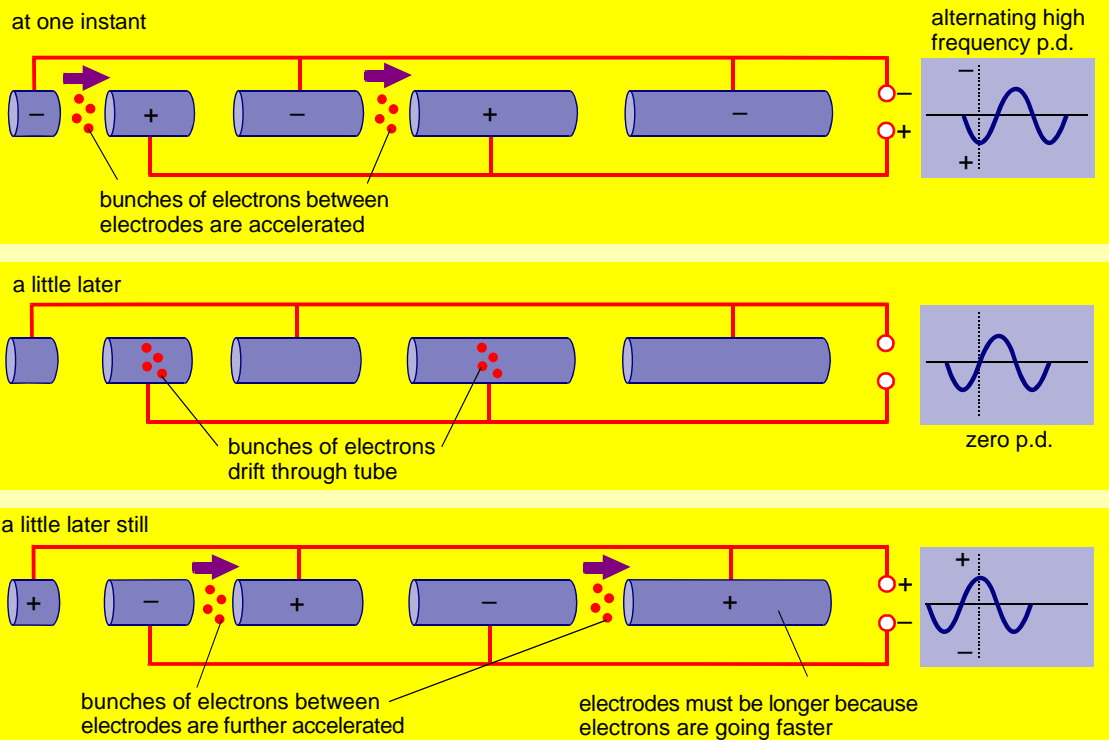
Principle of linear accelerator

The accelerating field



Principle of linear accelerator

Switching p.d.s to keep accelerating electrons



The alternating p.d. switches back and forth so that the electrons are accelerated as they pass between successive electrodes

Practical advice

This diagram is here so that you can discuss it with your class.

External reference

This activity is taken from Advancing Physics chapter 16, 400