G H Raisoni College of Engineering and Management, Pune

Transmission Electron Microscopy (TEM)



The first TEM was demonstrated by Max Knoll and Ernst Ruska in 1931.

The image is then magnified and focused onto an imaging device, such as a fluorescent screen, a layer of such as a scintillator attached to a charge-coupled device.

Transmission electron microscopy (TEM) is a microscopy technique in which a beam of electrons is transmitted through a specimen to form an image. The specimen is most often an ultrathin section less than 100 nm thick or a suspension on a grid. An image is formed from the interaction of the electrons with the sample as the beam is transmitted through the specimen.

Transmission Electron Microscopy TEM can be used to study the growth layers, of composition and defects semiconductors. High resolution photographic film, or a sensor can be used to analyze the quality, shape, size and density quantum wells, wires and dots.

References-

https://en.wikipedia.org/wiki/Transmission_electron_microscopy https://warwick.ac.uk/fac/sci/physics/



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				TAE Ass	sessment Sheet for FY E	3 Tech	
SR.NO	ROLL NO	DIVISION		NAME OF THE STUDENT		TAE NO	POSTER/PRESENT ATION
1	A69	Α		Soham Yugraj Tiwari			
2	A70	Α		Ar	maan Ayyub Nalband	1	Doctor
3	A71	Α		Shr	avan Vijaypratap Singh		Poster
4	A72	Α			Pratik Rajesh Jade		
Rubrics For Assessment							
CATEGORY Content			Presentati		Spelling and pronunciation	Oral Presentatio n	TOTAL
Maximum MARKS		2	1		1	1	5
Marks obtained							
					Teacher sign (With name and date)		

