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A scanning electron microscope (SEM) is a type of electron microscope that produces images of a sample by scanning the surface with a focused beam of electrons. The electrons interact with atoms in the sample, producing various signals that contain information about the surface topography and composition of the sample. The electron beam is scanned in a raster scan pattern, and

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The operation and alignment of the transmission and scanning electron microscopes are covered in separate chapters. Detailed instructions enable the novice to produce successful micrographs, and the book includes advice on how to optimise the accelerating voltage, condenser lens settings, aperture size and magnification on photographic recording.

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