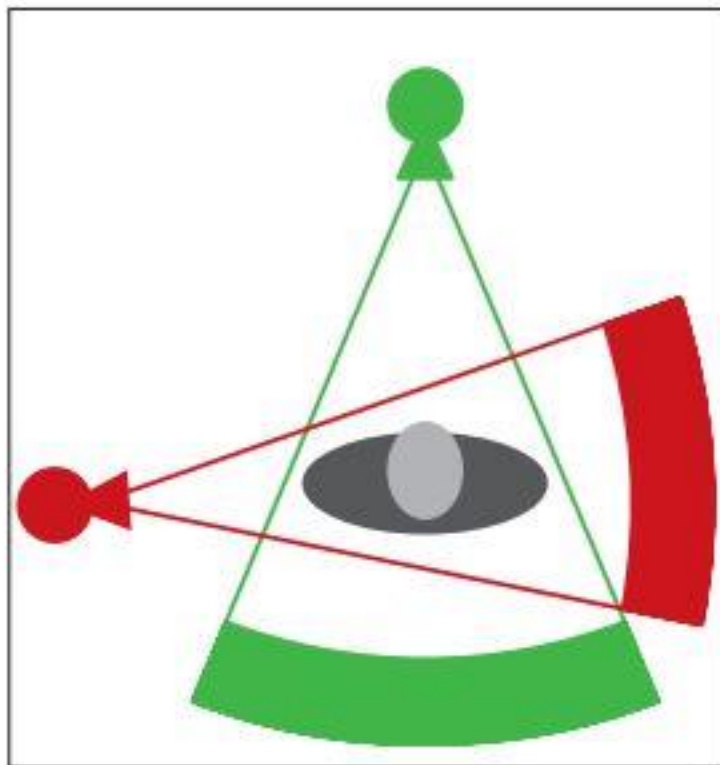
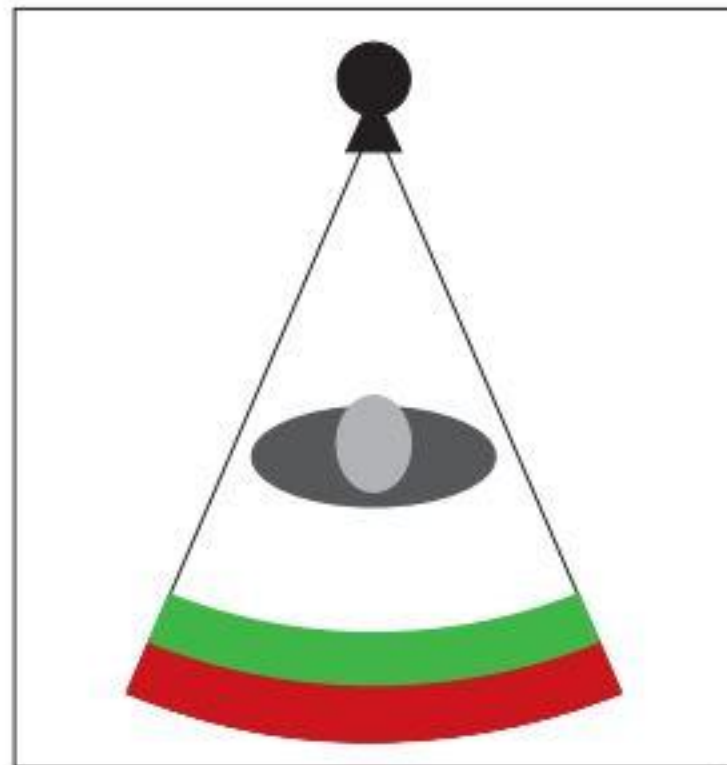


A



B



C

Fig. 2—Technical approaches.

A, Sketch of rapid kilovoltage-switching system containing only one tube and one detector. Voltage is switched rapidly between two levels.

B, Sketch of dual-source CT system with two tubes and detectors mounted orthogonally in one gantry. Tubes are operated at different tube voltages (e.g., 80 and 140 kV). Additionally, filter can be applied to rid high-energy spectrum of low-energy quanta.

C, Sketch of layer detector system with one x-ray tube running at constant voltage. Dual-energy information is derived from two layers of detector with different sensitivity profiles.