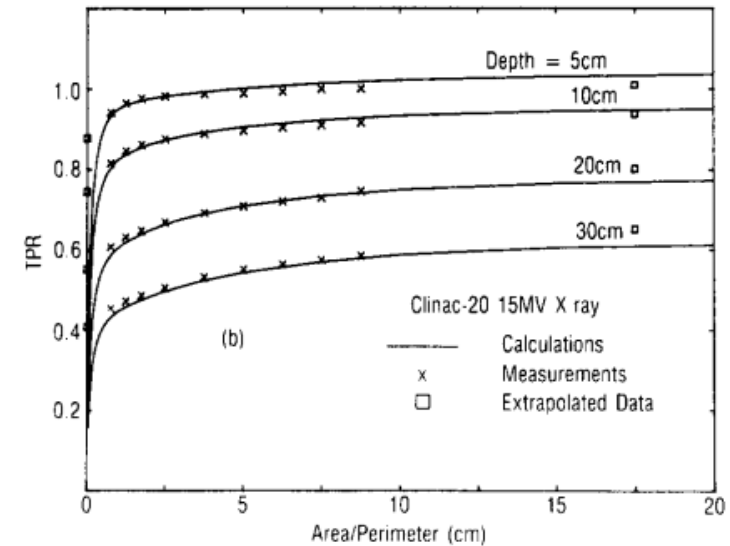
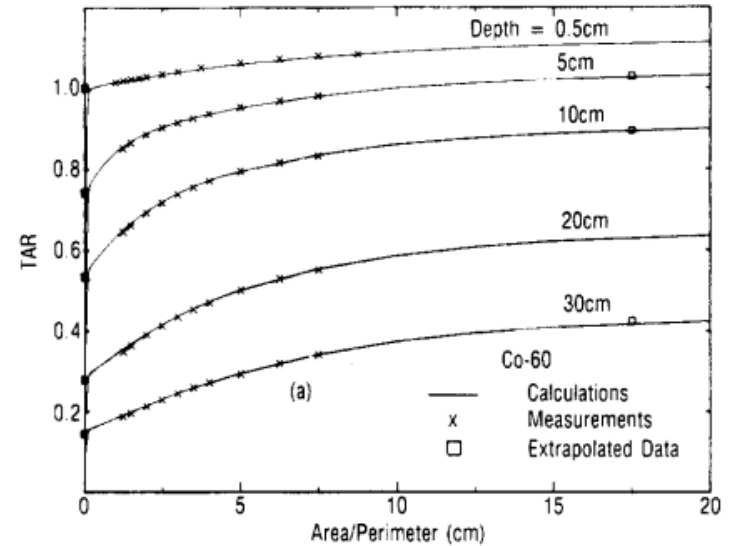


Methods of Separating Primary and Scatter

- What are these two plots and how would they be used to distinguish primary from scatter contributions?

- What class of algorithms utilize them?



- What method of scatter integration is the figure below illustrating?

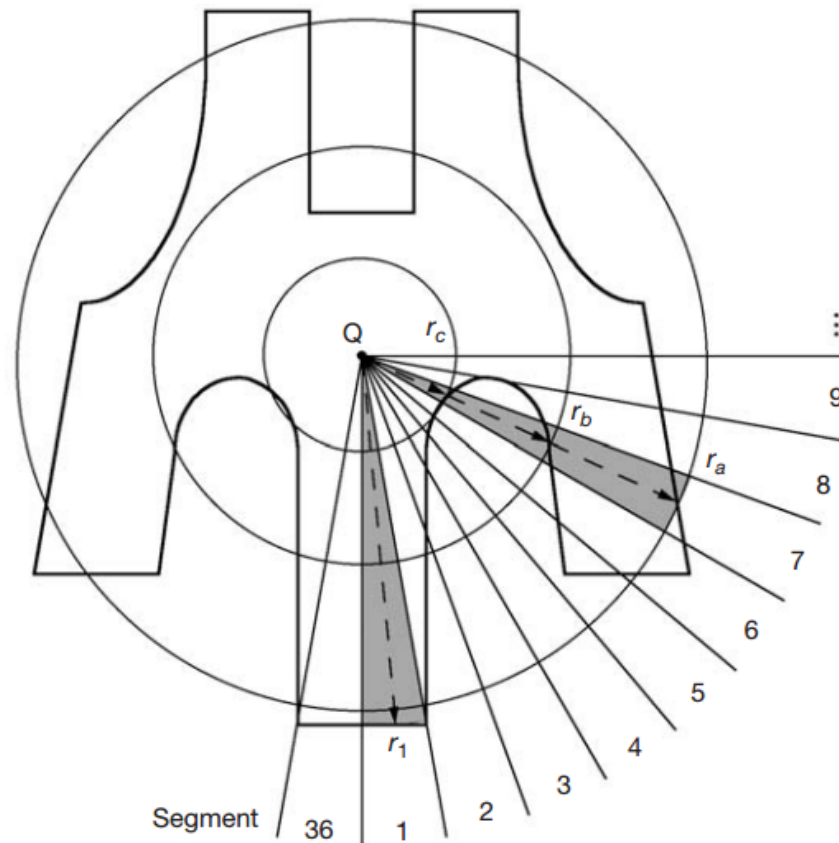


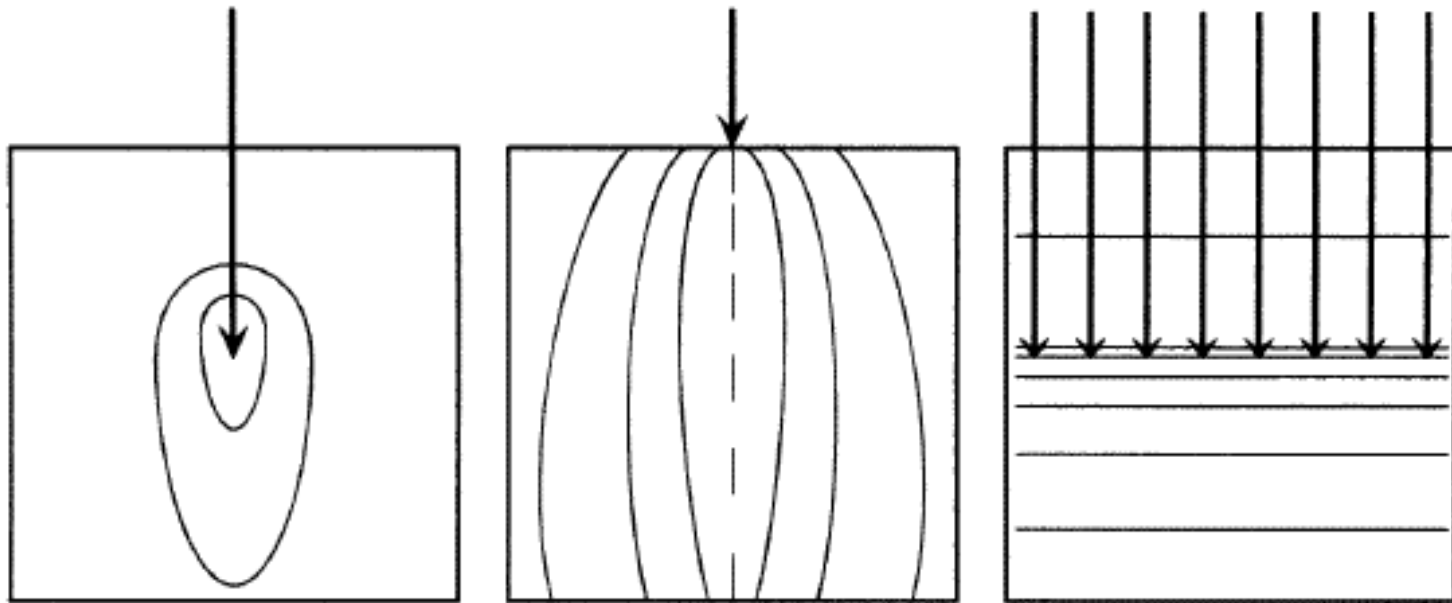
FIG. 6.20. An example of a mantle irregular field. Two segments out of 36 are highlighted. The first is simple with radius r_1 , the seventh is composite with three radii: r_a , r_b and r_c .



Miscellaneous

- Describe the difference between the Back Scatter Factor (BSF) and the Peak Scatter Factor (PSF)
- Describe the measurement method for determining S_{cp} , S_c , and S_p

- What are these figures?
- How are they created?
- What class of algorithms use them?
- How is the primary dose contribution calculated?

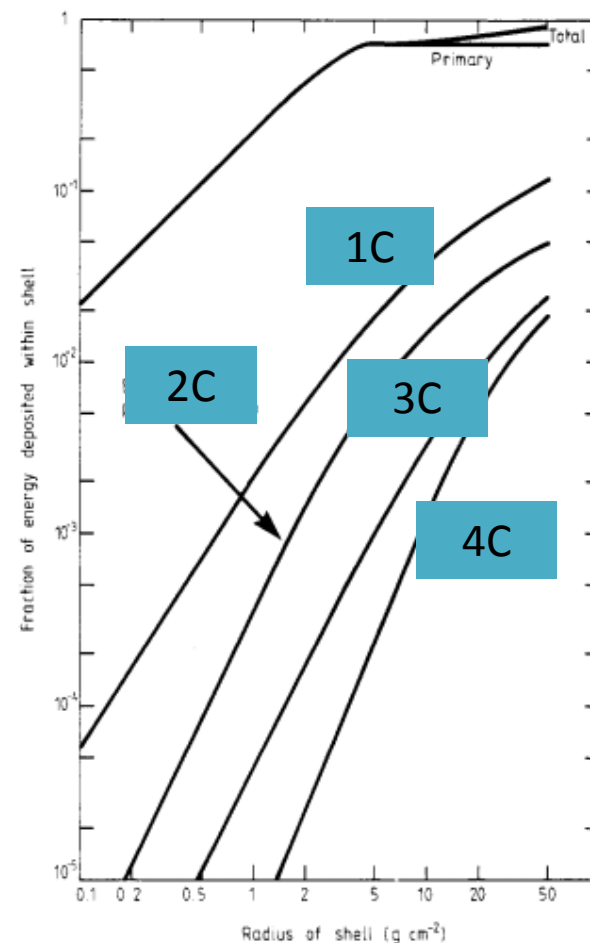
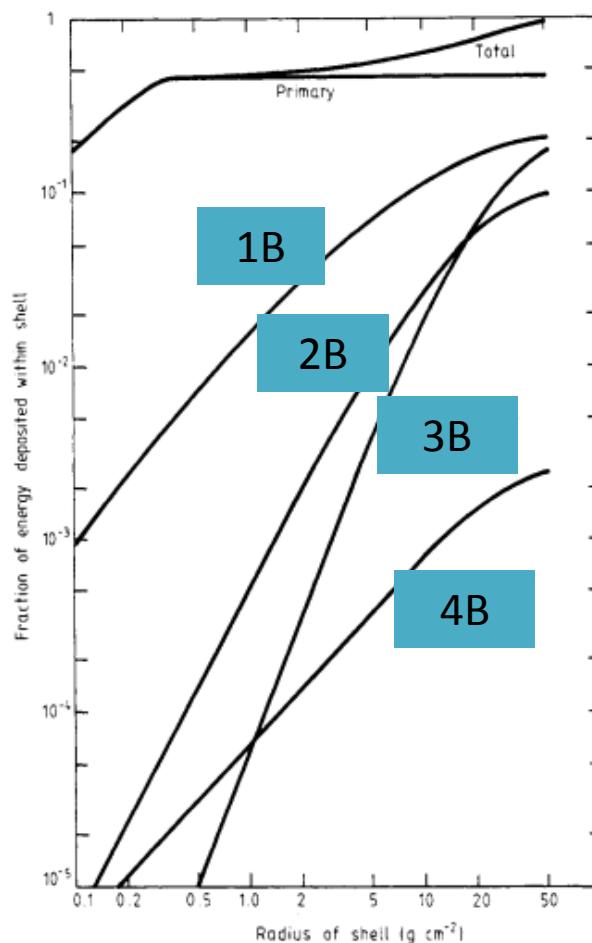
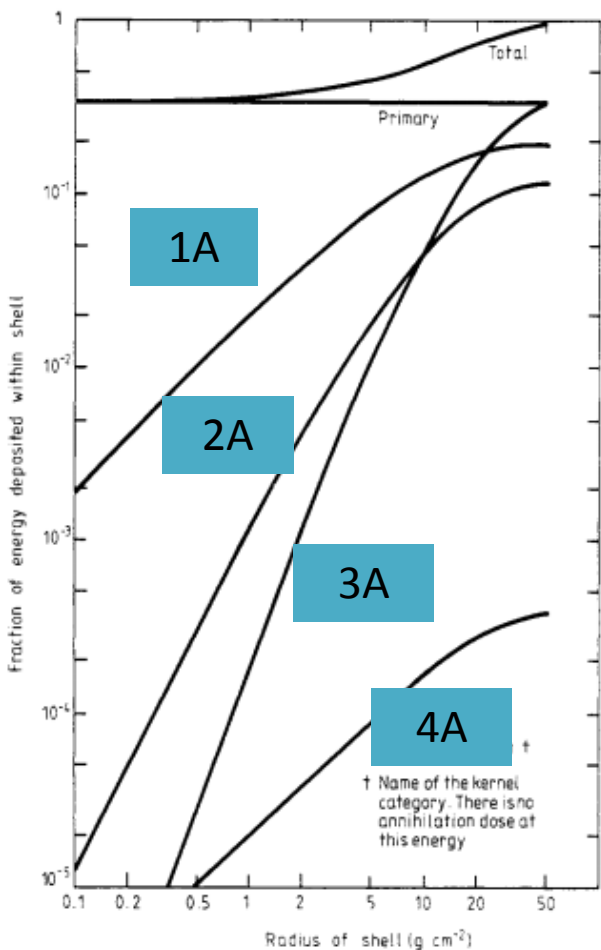


- Label these contributions to dose at different energy levels

0.5 MeV

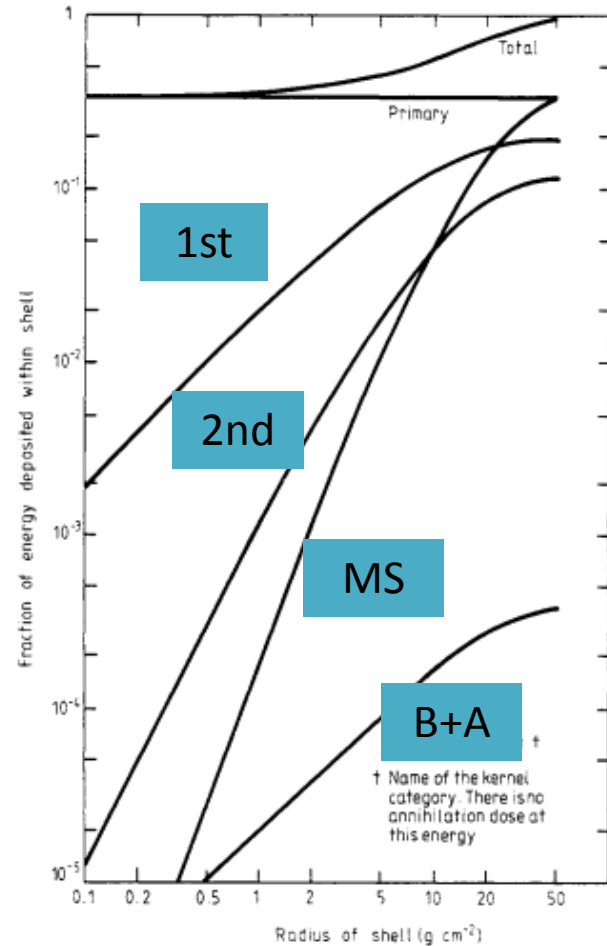
1.25 MeV

10 MeV

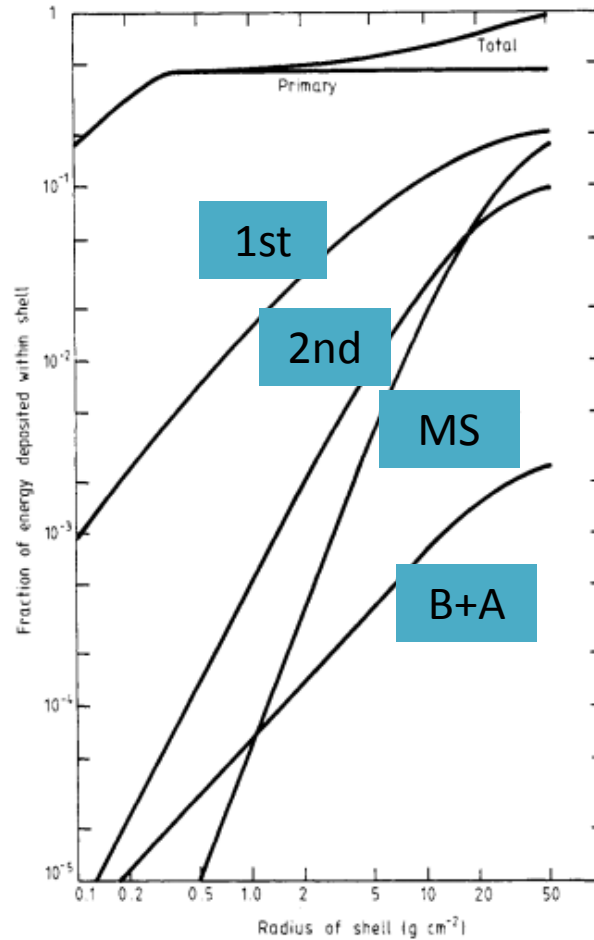


- Label these contributions to dose at different energy levels

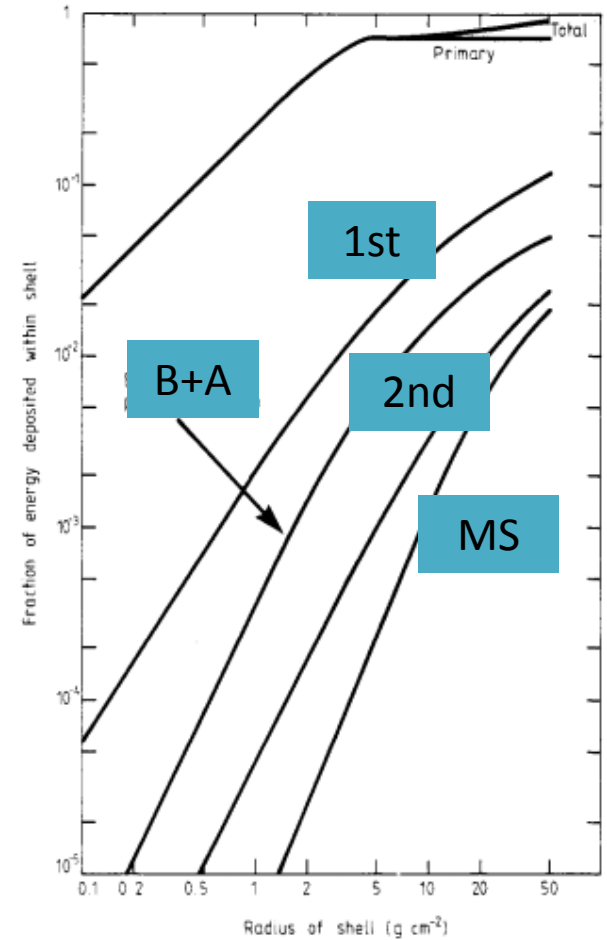
0.5 MeV



1.25 MeV



10 MeV



Resources

- Dose calculations for external photon beams in radiotherapy.
 - 1999 Phys. Med. Biol. 44 R99-R155
 - Anders Ahnesjo and Maria Mania Aspradakis
- Ch. 6: Radiation Oncology Physics Handbook
 - <http://www-naweb.iaea.org/nahu/DMRP/RadiationOncologyPhysicsHandbook.html>