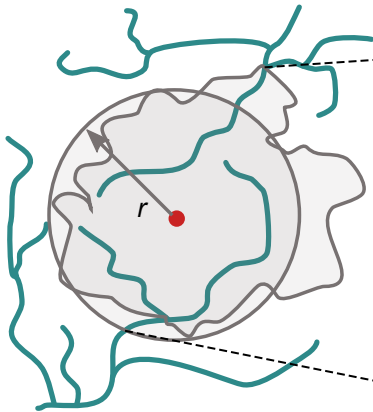
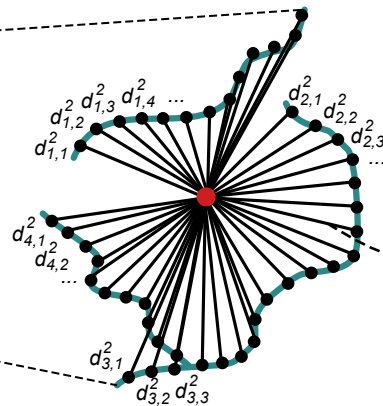


(a) Stream Proximity Criteria:
Adjacent + Expanding



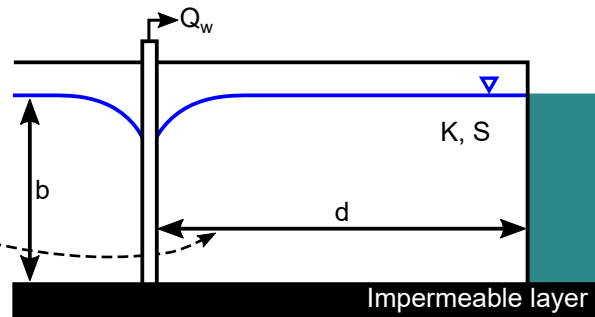
Any segment in catchment adjacent to well, or within distance r defined as maximum distance with depletion potential greater than 0.01 at timestep

(b) Depletion Apportionment Equation:
Web Squared



Divides stream segments into evenly spaced points, then apportions depletion based on square of inverse distance from each point to well.

(c) Analytical Model:
Glover & Balmer (1954)



Analytical model for fully penetrating well and stream, not accounting for streambed resistance to flow.