



FIGURE 13.19. Idealized channel geometry for three simple channel patterns. Equivalent alternate bar patterns in straight channels are shown (upper diagrams) for comparison. Bankfull cross sections are smoothed (no mesoforms or cross-bar channels are shown) and have vertical exaggerations by factors of approximately 3 or 4. Broken lines in cross sections represent the low-flow-stage geometry. Solid and broken lines with arrows represent loci of maximum flow velocity for the high- and low-flow stage, respectively. The single arrow and E represent potential locations of flow diversion and erosion in response to encroachment of the tributary bar (riffle) of the major channel. Modified from Bridge (2003).