

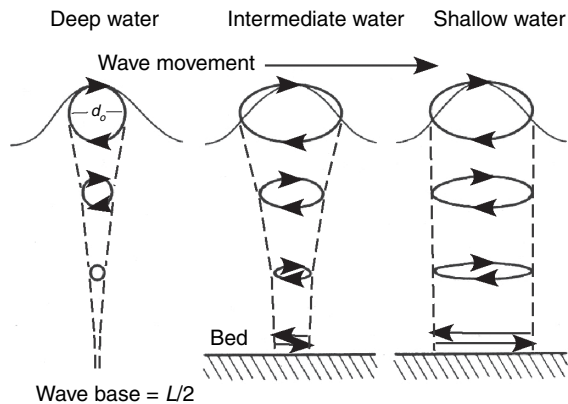
**A**

FIGURE 7.3. (A) Airy-wave theory: water-particle orbits for deep-, intermediate-, and shallow-water waves. (B) Water-particle trajectories for intermediate-water waves photographed over one wave period. Trajectories are almost circles at the upper surface, but are progressively flatter ellipses with decreasing long axis towards the bed. Trajectories are not completely closed. The wave amplitude is 0.04 times the wave length, and the depth is 0.22 times the wave length. From Van Dyke (1982).

**B**