



FIGURE 3.21. The variety of detrital quartz in thin section. From Adams *et al.* (1984). (A) Monocrystalline grains with rounded outlines demarcated by "dust rims" that have euhedral quartz overgrowths (arrows), seen under crossed polarizers. (B) Undulose extinction (crossed polarizers). (C) Three larger polycrystalline quartz grains surrounded by smaller quartz grains (crossed polarizers). (D) Inclusion-rich quartz (plane-polarized light). Large chert pebbles surrounded by smaller quartz grains seen under (E) plane-polarized light and (F) crossed polarizers.