

8.25 Four measures that may be taken to increase the fatigue resistance of a metal alloy are:

- (1) Polish the surface to remove stress amplification sites.
- (2) Reduce the number of internal defects (pores, etc.) by means of altering processing and fabrication techniques.
- (3) Modify the design to eliminate notches and sudden contour changes.
- (4) Harden the outer surface of the structure by case hardening (carburizing, nitriding) or shot peening.