Tempered Martensite

10.D4 This problem asks us to consider the tempering of a water-quenched 1080 steel to achieve a hardness of 45 HRC. It is necessary to use Figure 10.35.

(a) The time necessary at 535°C is about 100 s.
(b) At 425°C, the time required is approximately 40,000 s (about 11 h).