

26. We use the formula from problem 22:

$$\begin{aligned}P(t) &= P_0 k^{t/t_{\text{gen}}} \\&= (400 \text{ MW})(1.0003)^{(5.00 \text{ min})(60 \text{ s/min})/(0.00300 \text{ s})} \\&= 8.03 \times 10^3 \text{ MW} .\end{aligned}$$