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Chapter 1 Solutions

Case Study 1: Chip Fabrication Cost

1.1 a. $\text{Yield} = 1 / (1 + (0.04 \times 2))^{14} = 0.34$

b. It is fabricated in a larger technology, which is an older plant. As plants age, their process gets tuned, and the defect rate decreases.

1.2 a. Phoenix:

$$\text{Dies per wafer} = (\pi \times (45/2)^2) / 2 - (\pi \times 45) / \text{sqrt}(2 \times 2) = 795 - 70.7 = 724.5 \approx 724$$
$$\text{Yield} = 1 / (1 + (0.04 \times 2))^{14} = 0.340$$