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As illustrated in Figure 1.1, a manufacturing operation can be viewed graphically as a system with raw materials and supplies serving as its inputs and finished commercial products serving as outputs. In semiconductor man- ufacturing, input materials include semiconductor materials, dopants, metals, and insulators.

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Solutions Manual to Accompany FUNDAMENTALS OF SEMICONDUCTOR FABRICATION G. S. W0 = Wb = 1.0375 μm W0 = Wb = 1.8 % In terms of the wafer area. 4.g.52 = 0.5 μm, the width of the bottom surface is W = W1 + 2l = 1000 + 2 625 = 1884 μm The fraction of surface area that is lost is (W 2 – W12) / W 2 100%=-...

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The segregation coef ficient of boron in silicon is 0.72. It is smaller than unity, so the solubility of B in Si under solid phase is s maller than that of the me It. Therefore, the exces s B atoms will be thrown-of f into th e melt, then the co ncentra tion of B in the m elt will b e increased.

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