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11.1 For the perfectly illuminated DBR, $d = a = \lambda/2$ and $n_1 = n_2 = n$. From Eqs. (11.1) and (11.2) it is seen that the stop bands occur with $m = 1$ and 2. Therefore, the length L and the number N of grating periods for the DBR are

$$L = \frac{\lambda}{2} = \frac{\lambda_0}{2n}$$
$$N = \frac{L}{d} = \frac{\lambda_0}{\lambda} = 2n$$

With $n = 1.5$ and $a = 1\ \mu\text{m}$ and $d = 0.5\ \mu\text{m}$, we have

$$L = \frac{1.5 \times 10^{-6}}{2} = 0.75 \times 10^{-6}\ \text{m} = 0.75\ \mu\text{m}$$
$$N = \frac{0.75 \times 10^{-6}}{0.5 \times 10^{-6}} = 1.5 \times 10^6 = 1.5 \times 10^6$$

11.2 For $d = 0.05\ \mu\text{m}$, $a = 0.1\ \mu\text{m}$. Therefore, the length L and the number N of grating periods for the DBR are

$$L = \frac{0.1}{2} = 0.05 \times 10^{-6}\ \text{m} = 0.05 \times 10^{-6}\ \text{m}$$
$$N = \frac{L}{d} = \frac{0.05 \times 10^{-6}}{0.05 \times 10^{-6}} = 1 \times 10^6 = 1 \times 10^6$$

With $n = 1.5$ and $a = 0.1\ \mu\text{m}$ and $d = 0.05\ \mu\text{m}$, we have

$$L = \frac{0.1}{2} = 0.05 \times 10^{-6}\ \text{m} = 0.05 \times 10^{-6}\ \text{m}$$
$$N = \frac{L}{d} = \frac{0.05 \times 10^{-6}}{0.05 \times 10^{-6}} = 1 \times 10^6 = 1 \times 10^6$$

11.3 For a Bragg grating illuminated normally, we find from (11.3) that $\lambda_1 = 2nd \cos \theta$. Therefore, with $d = 0.1\ \mu\text{m}$ and $n = 1.5$, the length L and the number N of grating periods for the DBR are

$$L = \frac{\lambda_1}{2} = \frac{2nd \cos \theta}{2} = nd \cos \theta$$
$$N = \frac{L}{d} = \frac{nd \cos \theta}{d} = n \cos \theta$$

With $n = 1.5$ and $a = 0.1\ \mu\text{m}$ and $d = 0.1\ \mu\text{m}$, we have

$$L = \frac{1.5 \times 10^{-6}}{2} = 0.75 \times 10^{-6}\ \text{m} = 0.75 \times 10^{-6}\ \text{m}$$
$$N = \frac{0.75 \times 10^{-6}}{0.1 \times 10^{-6}} = 7.5 \times 10^6 = 7.5 \times 10^6$$

With $d = 0.1\ \mu\text{m}$ and $n = 1.5$, the length L and the number N of grating periods for the DBR are

$$L = \frac{\lambda_1}{2} = \frac{2nd \cos \theta}{2} = nd \cos \theta$$
$$N = \frac{L}{d} = \frac{nd \cos \theta}{d} = n \cos \theta$$

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