

(b) $U(\theta, \phi) = \cos^{182.34}(\theta)$; $U_{\max} = 1$, $\theta = 0^\circ$

$$\begin{aligned} P_{\text{rad}} &= \int_0^{2\pi} \int_0^{\pi/2} U(\theta, \phi) \sin \theta \, d\theta \, d\phi = 2\pi \int_0^{\pi/2} \cos^{182.34}(\theta) \sin \theta \, d\theta \\ &= 2\pi \left[-\frac{\cos^{182.34}(\theta)}{182.34} \right]_0^{\pi/2} = \left[-0 + \frac{1}{182.34} \right] 2\pi = \frac{2\pi}{182.34} = 0.03446 \\ D_0 &= \frac{4\pi U_{\max}}{P_{\text{rad}}} = \frac{4\pi(1)}{2\pi}(182.34) = 2(182.34) = 364.68 \end{aligned}$$

$$\boxed{D_0 = 364.68 = 25.62 \text{ dB}}$$

(c) *Kraus' Approximation* (2.27):

$$D_0 \approx \frac{41,253}{\Theta_{1d}\Theta_{2d}} = \frac{41,253}{(10)(10)} = 412.53 = 26.15 \text{ dB}$$

$$\boxed{D_0 \approx 412.53 = 26.15 \text{ dB}}$$

(d) *Tai & Pereira* (2.30b):

$$D_0 \approx \frac{72,815}{\Theta_{1d}^2 + \Theta_{2d}^2} = \frac{72,815}{2(10)^2} = \frac{72,815}{200} = 364.075 = 25.61 \text{ dB}$$

$$\boxed{D_0 \approx 364.075 = 25.61 \text{ dB}}$$

2.10.

$$U(\theta, \phi) = \begin{cases} 1 & 0^\circ \leq \theta \leq 20^\circ \\ 0.342 \csc(\theta) & 20^\circ \leq \theta \leq 60^\circ \\ 0 & 60^\circ \leq \theta \leq 180^\circ \end{cases} \quad 0^\circ \leq \phi \leq 360^\circ$$

$$\begin{aligned} P_{\text{rad}} &= \int_0^{2\pi} \int_0^\pi U(\theta, \phi) \sin \theta \, d\theta \, d\phi \\ &= 2\pi \left[\int_0^{20^\circ} \sin \theta \, d\theta + \int_{20^\circ}^{60^\circ} 0.342 \csc(\theta) \times \sin \theta \, d\theta \right] \\ &= 2\pi \left\{ -\cos \theta \Big|_0^{20^\circ} + 0.342 \cdot \theta \Big|_{20^\circ}^{60^\circ} \right\} \\ &= 2\pi \left\{ \left[-\cos \left(\frac{\pi}{9} \right) + 1 \right] + 0.342 \left(\frac{\pi}{3} - \frac{\pi}{9} \right) \right\} \\ &= 2\pi \left\{ [-0.93969 + 1] + 0.342\pi \left(\frac{2}{9} \right) \right\} \\ &= 2\pi [0.06031 + 0.23876] = 1.87912 \\ D_0 &= \frac{4\pi U_{\max}}{P_{\text{rad}}} = \frac{4\pi(1)}{1.87912} = 6.68737 = 8.25255 \text{ dB} \end{aligned}$$

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Ian Pickup



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