

(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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S Ashworth



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Antenna Theory Constantine A. Balanis, 2016-02-01 Updated with color and gray scale illustrations a companion website housing supplementary material and new sections covering recent developments in antenna analysis and design This book introduces the fundamental principles of antenna theory and explains how to apply them to the analysis design and measurements of antennas Due to the variety of methods of analysis and design and the different antenna structures available the applications covered in this book are made to some of the most basic and practical antenna configurations Among these antenna configurations are linear dipoles loops arrays broadband antennas aperture antennas horns microstrip antennas and reflector antennas The text contains sufficient mathematical detail to enable undergraduate and beginning graduate students in electrical engineering and physics to follow the flow of analysis and design Readers should have a basic knowledge of undergraduate electromagnetic theory including Maxwell's equations and the wave equation introductory physics and differential and integral calculus Presents new sections on flexible and conformal bowtie Vivaldi antenna antenna miniaturization antennas for mobile communications dielectric resonator antennas and scale modeling Provides color and gray scale figures and illustrations to better depict antenna radiation characteristics Includes access to a companion website housing MATLAB programs Java based applets and animations Power Point notes Java based interactive questionnaires and a solutions manual for instructors Introduces over 100 additional end of chapter problems *Antenna Theory Analysis and Design* Fourth Edition is designed to meet the needs of senior undergraduate and beginning graduate level students in electrical engineering and physics as well as practicing engineers and antenna designers Constantine A Balanis received his BSEE degree from the Virginia Tech in 1964 his MEE degree from the University of Virginia in 1966 his PhD in Electrical Engineering from The Ohio State University in 1969 and an Honorary Doctorate from the Aristotle University of Thessaloniki in 2004 From 1964 to 1970 he was with the NASA Langley Research Center in Hampton VA and from 1970 to 1983 he was with the Department of Electrical Engineering of West Virginia University In 1983 he joined Arizona State University and is now Regents Professor of Electrical Engineering Dr Balanis is also a life fellow of the IEEE

Antenna Theory Constantine A. Balanis, 2015-12-28 Updated with color and gray scale illustrations a companion website housing supplementary material and new sections covering recent developments in antenna analysis and design This book introduces the fundamental principles of antenna theory and explains how to apply them to the analysis design and measurements of antennas Due to the variety of methods of analysis and design and the different antenna structures available the applications covered in this book are made to some of the most basic and practical antenna configurations Among these antenna configurations are linear dipoles loops arrays broadband antennas aperture antennas horns microstrip antennas and reflector antennas The text contains sufficient mathematical detail to enable undergraduate and beginning graduate students in electrical engineering and physics to follow the flow of analysis and design Readers should have a basic knowledge of undergraduate

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and or the electrical currents present on a physical object capable of supporting such a current Almost as soon as one begins to look at the subject it becomes clear that there are interesting mathematical problems which need to be addressed in the first instance simply for the accurate modelling of the electromagnetic fields produced by an antenna The description of the electromagnetic fields depends on the physical structure and the background environment in which the device is to operate It is the coincidence of a class of practical engineering applications and the application of some interesting mathematical optimization techniques that is the motivation for the present book For this reason we have thought it worthwhile to collect some of the problems that have inspired our research in applied mathematics and to present them in such a way that they may appeal to two different audiences mathematicians who are experts in the theory of mathematical optimization and who are interested in a less familiar and important area of application and engineers who confronted with problems of increasing sophistication are interested in seeing a systematic mathematical approach to problems of interest to them We hope that we have found the right balance to be of interest to both audiences It is a difficult task Our ability to produce these devices at all most designed for a particular purpose leads quite soon to a desire to optimize the design in various ways The mathematical problems associated with attempts to optimize performance can become quite sophisticated even for simple physical structures

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