

$$2-1 \quad \underline{W} = \underline{E} \times \underline{H} = \text{Re}[\underline{E} e^{j\omega t}] \times \text{Re}[\underline{H} e^{j\omega t}]$$

$$\text{Using the identity } \text{Re}[\underline{A} e^{j\omega t}] = \frac{1}{2}[\underline{A} e^{j\omega t} + \underline{A}^* e^{-j\omega t}]$$

The instant Poynting vector can be written as

$$\begin{aligned} \underline{W} &= \left\{ \frac{1}{2}[\underline{E} e^{j\omega t} + \underline{E}^* e^{-j\omega t}] \right\} \times \left\{ \frac{1}{2}[\underline{H} e^{j\omega t} + \underline{H}^* e^{-j\omega t}] \right\} \\ &= \frac{1}{2} \left\{ \frac{1}{2}[\underline{E} \times \underline{H}^* + \underline{E}^* \times \underline{H}] + \frac{1}{2}[\underline{E} \times \underline{H} e^{j2\omega t} + \underline{E}^* \times \underline{H}^* e^{-j2\omega t}] \right\} \\ &= \frac{1}{2} \left\{ \frac{1}{2}[\underline{E} \times \underline{H}^* + (\underline{E} \times \underline{H}^*)^*] + \frac{1}{2}[\underline{E} \times \underline{H} e^{j2\omega t} + (\underline{E} \times \underline{H} e^{j\omega t})^*] \right\} \end{aligned}$$

Using the above identity again, but this time in reverse order,

We can write that

$$\underline{W} = \frac{1}{2}[\text{Re}(\underline{E} \times \underline{H}^*)] + \frac{1}{2}[\text{Re}(\underline{E} \times \underline{H} e^{j2\omega t})]$$

$$2-2. \quad (a) \quad W_{\text{rad}} = \frac{1}{2}[\underline{E} \times \underline{H}^*] = \frac{E^2}{2\eta} \hat{a}_r = \frac{5^2 \hat{a}_r}{2(120\pi)} = 0.03315 \hat{a}_r \text{ watts/m}^2$$

$$\begin{aligned} (b) \quad P_{\text{rad}} &= \oint_S W_{\text{rad}} dS = \int_0^{2\pi} \int_0^\pi (0.03315)(r^2 \sin\theta d\theta d\phi) \\ &= \int_0^{2\pi} \int_0^\pi (0.03315)(100)^2 \sin\theta d\theta d\phi \\ &= 2\pi (0.03315)(100)^2 \int_0^\pi \sin\theta d\theta = 2\pi (0.03315)(100)^2 \cdot 2 \\ &= 4165.75 \text{ watts} \end{aligned}$$

$$2-3. \quad (a) \quad D_0 = \frac{4\pi U_{\text{max}}}{P_{\text{rad}}} = \frac{4\pi(200 \times 10^{-3})}{0.9(125.66 \times 10^{-3})} = 22.22 = 13.47 \text{ dB}$$

$$G_0 = \epsilon_r \cdot D_0 = 0.9(22.22) = 20 = 13.01 \text{ dB}$$

$$(b) \quad D_0 = \frac{4\pi U_{\text{max}}}{P_{\text{rad}}} = \frac{4\pi(200 \times 10^{-3})}{(125.66 \times 10^{-3})} = 20 = 13.01 \text{ dB}$$

$$G_0 = \epsilon_r \cdot D_0 = 0.9 \cdot (20) = 18 = 12.55 \text{ dB}$$

# Solution Manual To Balanis Antenna Theory Second

**JA Banks**



## **Solution Manual To Balanis Antenna Theory Second:**

**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 *Balanis' Advanced Engineering Electromagnetics* Constantine A. Balanis, 2024-01-31 Balanis Advanced Engineering Electromagnetics The latest edition of the foundational guide to advanced electromagnetics Balanis third edition of Advanced Engineering Electromagnetics a global best seller for over 30 years covers the advanced knowledge engineers involved in electromagnetics need to know particularly as the topic relates to the fast moving continuously evolving and rapidly expanding field of wireless communications The immense interest in wireless communications and the expected increase in wireless communications systems projects antennas microwaves and wireless communications points to an increase in the number of engineers needed to specialize in this field Highlights of the 3rd Edition include A new chapter on Artificial Impedance Surfaces AIS contains material on current and advanced EM technologies including the exciting and fascinating

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