

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

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 instantaneous 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

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

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

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

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

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

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

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

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Nemai Chandra Karmakar



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Space Antenna Handbook William A. Imbriale, Steven Shichang Gao, Luigi Boccia, 2012-06-25 This book addresses a broad range of topics on antennas for space applications First it introduces the fundamental methodologies of space antenna design modelling and analysis as well as the state of the art and anticipated future technological developments Each of the topics discussed are specialized and contextualized to the space sector Furthermore case studies are also provided to demonstrate the design and implementation of antennas in actual applications Second the authors present a detailed review of antenna designs for some popular applications such as satellite communications space borne synthetic aperture radar SAR Global Navigation Satellite Systems GNSS receivers science instruments radio astronomy small satellites and deep space applications Finally it presents the reader with a comprehensive path from space antenna development basics to specific individual applications Key Features Presents a detailed review of antenna designs for applications such as satellite communications space borne SAR GNSS receivers science instruments small satellites radio astronomy deep space applications Addresses the space antenna development from different angles including electromagnetic thermal and mechanical design strategies required for space qualification Includes numerous case studies to demonstrate how to design and implement antennas in practical scenarios Offers both an introduction for students in the field and an in depth reference for antenna engineers who develop space antennas This book serves as an excellent reference for researchers professionals

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make this handbook easy to follow and provide a clear understanding of design techniques and the performance of finished products Its unique comprehensive coverage written by top experts in their fields promises to make the Handbook of Antennas in Wireless Communications the standard reference for the field **Monthly Catalogue, United States Public Documents** ,1994-08 *Introduction to Microwave Imaging* Natalia K. Nikolova,2017-07-13 With this self contained introductory text readers will easily understand the fundamentals of microwave and radar image generation Written with the complete novice in mind and including an easy to follow introduction to electromagnetic scattering theory it covers key topics such as forward models of scattering for interpreting S parameter and time dependent voltage data S parameters and their analytical sensitivity formulae basic methods for real time image reconstruction using frequency sweep and pulsed radar signals and metrics for evaluating system performance Numerous application examples and practical tutorial exercises provided throughout allow quick understanding of key concepts and sample MATLAB codes implementing key reconstruction algorithms accompany the book online This one stop resource is ideal for graduate students taking introductory courses in microwave imaging as well as researchers and industry professionals wanting to learn the fundamentals of the field

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antennas for RFID as well as the basic concepts terms protocols systems architectures and case studies in smart antennas for RFID readers and tags **Scientific and Technical Aerospace Reports** ,1987 Engineering Vibration, Communication and Information Processing Kanad Ray,S. N. Sharan,Sanyog Rawat,S. K. Jain,Sumit Srivastava,Anirban Bandyopadhyay,2018-10-30 This book discusses the revolution of cycles and rhythms that is expected to take place in different branches of science and engineering in the 21st century with a focus on communication and information processing It presents high quality papers in vibration sciences rhythms and oscillations neurosciences mathematical sciences and communication It includes major topics in engineering and structural mechanics computer sciences biophysics and biomathematics as well as other related fields Offering valuable insights it also inspires researchers to work in these fields The papers included in this book were presented at the 1st International Conference on Engineering Vibration Communication and Information Processing ICoEVCI 2018 India **Proceedings of International conference on Antenna Technologies** ,2005 **Monthly Catalog of United States Government Publications** ,1994 Polarimetric Synthetic Aperture Radar Irena Hajnsek,Yves-Louis Desnos,2021-03-24 This open access book focuses on the practical application of electromagnetic polarimetry principles in Earth remote sensing with an educational purpose In the last decade the operations from fully polarimetric synthetic aperture radar such as the Japanese ALOS PalsAR the Canadian Radarsat 2 and the German TerraSAR X and their easy data access for scientific use have developed further the research and data applications at L C and X band As a consequence the wider distribution of polarimetric data sets across the remote sensing community boosted activity and development in polarimetric SAR applications also in view of future missions Numerous experiments with real data from spaceborne platforms are shown with the aim of giving an up to date and complete treatment of the unique benefits of fully polarimetric synthetic aperture radar data in five different domains forest agriculture cryosphere urban and oceans *Applied Technologies* Miguel Botto-Tobar,Marcelo Zambrano Vizuite,Pablo Torres-Carrión,Sergio Montes León,Guillermo Pizarro Vásquez,Benjamin Durakovic,2020-03-02 This thirs volume of the three volume set CCIS 1193 1194 1195 constitutes the refereed proceedings of the First International Conference on Applied Technologies ICAT 2019 held in Quito Ecuador in December 2019 The 124 full papers were carefully reviewed and selected from 328 submissions The papers are organized according to the following topics technology trends computing intelligent systems machine vision security communication electronics e learning e government e participation **Recent Developments in Intelligent Nature-Inspired Computing** Patnaik, Srikanta,2017-03-09 The development of nature inspired computational techniques has enhanced problem solving in dynamic and uncertain environments By implementing effective computing strategies this ensures adaptable self organizing and decentralized behavioral techniques Recent Developments in Intelligent Nature Inspired Computing is an authoritative reference source for the latest scholarly material on natural computation methods and applications in diverse fields Highlighting multidisciplinary studies on swarm

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