

(C). Assuming this universe to be a perfect sphere we have limits as  $0 \leq r \leq \infty, 0 \leq \phi \leq 2\pi, 0 \leq \theta \leq \pi$  and the differential volume for spherical co-ordinates system is given by  $dv = (r \sin \theta dr d\theta d\phi) = r^2 \sin \theta dr d\theta d\phi$   
 $\Rightarrow Q = \int_{vol} \rho_v dv = \int_{vol} (e^{-2r}/r^2) r^2 \sin \theta dr d\theta d\phi = \int_0^{2\pi} d\phi \int_0^\pi \sin \theta d\theta \int_0^\infty e^{-2r} dr = | \phi |_0^{2\pi} \times | (-\cos \theta) |_0^\pi \times | e^{-2r} / -2 |_0^\infty$   
 $\Rightarrow Q = 2\pi \times 2 \times 1/2 = 2\pi C = 6.28C$

D2.5 (a). For infinite uniform line charge  $\vec{E}$  is given by  $\vec{E} = \rho_L \hat{a}_R / 2\pi\epsilon_0 | \vec{R} | = \rho_L \vec{R} / 2\pi\epsilon_0 | \vec{R} |^2$  where  $\vec{R}$  is the perpendicular distance vector between the line charge and the point under consideration, in this case the point is  $P_A (0,0,4)$ , since we have two infinite line charges, one along x-axis and one along y-axis so the value of  $\vec{E}$  at  $P_A$  is the sum of  $\vec{E}_1$  ( $\vec{E}$  due to infinite line charge along x-axis) and  $\vec{E}_2$  ( $\vec{E}$  due to infinite line charge along y-axis) so  $\vec{E}_1 = \rho_L \vec{R}_{px} / 2\pi\epsilon_0 | \vec{R}_{px} |^2, \vec{R}_{px} =$  ( Perpendicular distance vector between point  $P_A$  and the line charge along x-axis)

$$\Rightarrow \vec{R}_{px} = 4\hat{a}_z, \text{ now } \vec{E}_1 = 5 \times 10^{-9} \times 4\hat{a}_z / (2\pi \times 8.85 \times 10^{-12} \times 16) = 22.479\hat{a}_z V/m$$

using similar arguments we can find

$$\vec{R}_{py} = 4\hat{a}_z \text{ so } \vec{E}_2 = \rho_L \vec{R}_{py} / 2\pi\epsilon_0 | \vec{R}_{py} |^2 = 5 \times 10^{-9} \times 4\hat{a}_z / (2\pi \times 8.85 \times 10^{-12} \times 16) = 22.479\hat{a}_z V/m$$

$$\Rightarrow \vec{E} = \vec{E}_1 + \vec{E}_2 = 22.479\hat{a}_z V/m + 22.479\hat{a}_z V/m = 45\hat{a}_z V/m$$

(b). Using the same arguments as in part(a) we have  $\vec{R}_{px} = 3\hat{a}_y + 4\hat{a}_z$ , since the point is  $P_B(0,3,4)$  and  $\vec{R}_{py} = +4\hat{a}_z$

$$\vec{E}_1 = \rho_L \vec{R}_{px} / 2\pi\epsilon_0 | \vec{R}_{px} |^2 = 5 \times 10^{-9} \times (3\hat{a}_y + 4\hat{a}_z) / (2\pi \times 8.85 \times 10^{-12} \times 25) = 10.8\hat{a}_y + 14.38\hat{a}_z$$

$$\vec{E}_2 = \rho_L \vec{R}_{py} / 2\pi\epsilon_0 | \vec{R}_{py} |^2 = 5 \times 10^{-9} \times 4\hat{a}_z / (2\pi \times 8.85 \times 10^{-12} \times 16) = 22.479\hat{a}_z$$

$$\Rightarrow \vec{E} = \vec{E}_1 + \vec{E}_2 = 10.8\hat{a}_y + 14.38\hat{a}_z + 22.479\hat{a}_z = 10.8\hat{a}_y + 36.9\hat{a}_z$$

D2.6 (a).  $P_A = (2,5,-5)$ , since the point  $P_A$  is located below all the given surfaces or sheet of charges so the unit normal vector  $\hat{a}_N$  to these surfaces, which also shows the direction of  $\vec{E}$  will be in the -ive  $\hat{a}_z$  direction i.e  $-\hat{a}_z$   $\vec{E}$  at point  $P_A$  will be the sum of  $\vec{E}$ 's caused by each sheet of charge

$$\Rightarrow \vec{E} = \vec{E}_{z=4} + \vec{E}_{z=1} + \vec{E}_{z=-4}, \text{ now we have } \vec{E} = (\rho_s / 2 \times \epsilon_0) \hat{a}_N$$

$$\Rightarrow \vec{E} = \frac{10 \times 10^{-9}}{2 \times 8.85 \times 10^{-12}} \hat{a}_N + \frac{10 \times 10^{-9}}{2 \times 8.85 \times 10^{-12}} \hat{a}_N + \frac{10 \times 10^{-9}}{2 \times 8.85 \times 10^{-12}} \hat{a}_N$$

$$\Rightarrow \vec{E} = 56.26 \hat{a}_N + 56.26 \hat{a}_N + 56.26 \hat{a}_N$$

$$\Rightarrow \vec{E} = 168.78 \hat{a}_N$$

$$\Rightarrow \vec{E} = 168.78 (-\hat{a}_z) = -168.78 \hat{a}_z$$

$$\Rightarrow \vec{E} = -168.78 \hat{a}_z$$

(b). Since  $\vec{E}$  is constant in each region, it is important that the  $\vec{E}$  contributed by the surface sheet of charge is constant in each region. The direction of  $\vec{E}$  is also constant in each region.

$$\Rightarrow \vec{E} = \frac{10 \times 10^{-9}}{2 \times 8.85 \times 10^{-12}} \hat{a}_N + \frac{10 \times 10^{-9}}{2 \times 8.85 \times 10^{-12}} \hat{a}_N + \frac{10 \times 10^{-9}}{2 \times 8.85 \times 10^{-12}} \hat{a}_N$$

$$\Rightarrow \vec{E} = 56.26 \hat{a}_N + 56.26 \hat{a}_N + 56.26 \hat{a}_N$$

$$\Rightarrow \vec{E} = 168.78 \hat{a}_N$$

$$\Rightarrow \vec{E} = 168.78 \hat{a}_N$$

(c). For  $z > 4$ , since the point is located above all the given surfaces or sheet of charges so the unit normal vector  $\hat{a}_N$  to these surfaces, which also shows the direction of  $\vec{E}$  will be in the +ive  $\hat{a}_z$  direction i.e  $+\hat{a}_z$   $\vec{E}$  at point  $P_A$  will be the sum of  $\vec{E}$ 's caused by each sheet of charge

$$\Rightarrow \vec{E} = \vec{E}_{z=4} + \vec{E}_{z=1} + \vec{E}_{z=-4}, \text{ now we have } \vec{E} = (\rho_s / 2 \times \epsilon_0) \hat{a}_N$$

$$\Rightarrow \vec{E} = \frac{10 \times 10^{-9}}{2 \times 8.85 \times 10^{-12}} \hat{a}_N + \frac{10 \times 10^{-9}}{2 \times 8.85 \times 10^{-12}} \hat{a}_N + \frac{10 \times 10^{-9}}{2 \times 8.85 \times 10^{-12}} \hat{a}_N$$

$$\Rightarrow \vec{E} = 56.26 \hat{a}_N + 56.26 \hat{a}_N + 56.26 \hat{a}_N$$

$$\Rightarrow \vec{E} = 168.78 \hat{a}_N$$

$$\Rightarrow \vec{E} = 168.78 \hat{a}_N$$

(d). For  $1 < z < 4$ , since the point is located between the surface sheet of charge, so the unit normal vector  $\hat{a}_N$  to these surfaces, which also shows the direction of  $\vec{E}$  will be in the +ive  $\hat{a}_z$  direction i.e  $+\hat{a}_z$   $\vec{E}$  at point  $P_A$  will be the sum of  $\vec{E}$ 's caused by each sheet of charge

$$\Rightarrow \vec{E} = \vec{E}_{z=4} + \vec{E}_{z=1} + \vec{E}_{z=-4}, \text{ now we have } \vec{E} = (\rho_s / 2 \times \epsilon_0) \hat{a}_N$$

$$\Rightarrow \vec{E} = \frac{10 \times 10^{-9}}{2 \times 8.85 \times 10^{-12}} \hat{a}_N + \frac{10 \times 10^{-9}}{2 \times 8.85 \times 10^{-12}} \hat{a}_N + \frac{10 \times 10^{-9}}{2 \times 8.85 \times 10^{-12}} \hat{a}_N$$

$$\Rightarrow \vec{E} = 56.26 \hat{a}_N + 56.26 \hat{a}_N + 56.26 \hat{a}_N$$

$$\Rightarrow \vec{E} = 168.78 \hat{a}_N$$

$$\Rightarrow \vec{E} = 168.78 \hat{a}_N$$

# Engineering Electromagnetics 7th Edition Chapter Problems Solutions

**Manuel F. Cátedra**



## **Engineering Electromagnetics 7th Edition Chapter Problems Solutions:**

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 topic of metasurfaces for Control and broadband RCS reduction using checkerboard designs Optimization of antenna fundamental parameters such as input impedance directivity realized gain amplitude radiation pattern Leaky wave antennas using 1 D and 2 D polarization diverse holographic high impedance metasurfaces for antenna radiation control and optimization Associated MATLAB programs for the design of checkerboard metasurfaces for RCS reduction and metasurface printed antennas and holographic L WA for radiation control and optimization Throughout the book there are Additional examples numerous end of chapter problems and PPT notes Fifty three MATLAB computer programs for computations graphical visualizations and animations Nearly 4 500 multicolor PowerPoint slides are available for self study or lecture use

*Elements of Electromagnetics* Matthew N. O. Sadiku, Sudarshan Nelatury, 2020-07-27 Using a vectors first approach Elements of Electromagnetics Seventh Edition covers electrostatics magnetostatics fields waves and applications like transmission lines waveguides and antennas The text also provides a balanced presentation of time varying and static fields preparing students for employment in today s industrial and manufacturing sectors *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

**Core List of Books and Journals in Science and Technology** Russell H. Powell, James R. Powell, 1987-10 Engineering Electromagnetics Umran S. Inan, Aziz S. Inan, 1999 Engineering Electromagnetics provides a solid foundation in electromagnetics fundamentals by emphasizing physical understanding and practical applications Electromagnetics with its requirements for abstract thinking can prove challenging for students The authors physical and intuitive approach has produced a book that will inspire enthusiasm and interest for the material Benefiting from a review of electromagnetic curricula at several schools and repeated use in classroom settings this text presents material in a rigorous yet readable manner FEATURES BENEFITS Starts with coverage of transmission lines before addressing fundamental laws providing a smooth transition from circuits to electromagnetics Emphasizes physical understanding and the experimental bases of fundamental laws Offers detailed examples and numerous practical end of chapter problems with each problem s topical content clearly identified Provides historical notes abbreviated biographies and hundreds of footnotes to motivate interest and enhance understanding Back Cover Benefiting from a review of electromagnetic curricula at several schools and repeated use in classroom settings this text presents material in a comprehensive and practical yet readable manner Features Starts with coverage of transmission lines before addressing fundamental laws providing a smooth transition from circuits to electromagnetics Emphasizes physical understanding and the experimental bases of fundamental laws Offers detailed examples and numerous practical end of chapter problems with each problem s topical content clearly identified Provides historical notes abbreviated biographies and hundreds of footnotes to motivate interest and enhance understanding New Technical Books New York Public Library, 1990 *Choice* Richard K. Gardner, Phyllis Grumm, 1976 *The CG-FFT Method* Manuel F. Catedra, 1995 This work presents a comprehensive description of the basic principles and practical application of the conjugate gradient method in combination with fast Fourier transform CG FFT It provides extensive fundamental analyses of basic spectral methods and conjugate gradient

methods The presentation details the relationship between applied electromagnetics and linear system theory for the analysis of radiation and scattering from two dimensional and three dimensional bodies with arbitrary geometry and material composition plane multilayer or volumetric periodic structures and metallic patches defined over body of revolution BOR surfaces

**Signal Processing and Machine Learning for Biomedical Big Data** Ervin Sejdic, Tiago H. Falk, 2018-07-04 Within the healthcare domain big data is defined as any high volume high diversity biological clinical environmental and lifestyle information collected from single individuals to large cohorts in relation to their health and wellness status at one or several time points Such data is crucial because within it lies vast amounts of invaluable information that could potentially change a patient's life opening doors to alternate therapies drugs and diagnostic tools Signal Processing and Machine Learning for Biomedical Big Data thus discusses modalities the numerous ways in which this data is captured via sensors and various sample rates and dimensionalities Capturing analyzing storing and visualizing such massive data has required new shifts in signal processing paradigms and new ways of combining signal processing with machine learning tools This book covers several of these aspects in two ways firstly through theoretical signal processing chapters where tools aimed at big data be it biomedical or otherwise are described and secondly through application driven chapters focusing on existing applications of signal processing and machine learning for big biomedical data This text aimed at the curious researcher working in the field as well as undergraduate and graduate students eager to learn how signal processing can help with big data analysis It is the hope of Drs Sejdic and Falk that this book will bring together signal processing and machine learning researchers to unlock existing bottlenecks within the healthcare field thereby improving patient quality of life Provides an overview of recent state of the art signal processing and machine learning algorithms for biomedical big data including applications in the neuroimaging cardiac retinal genomic sleep patient outcome prediction critical care and rehabilitation domains Provides contributed chapters from world leaders in the fields of big data and signal processing covering topics such as data quality data compression statistical and graph signal processing techniques and deep learning and their applications within the biomedical sphere This book's material covers how expert domain knowledge can be used to advance signal processing and machine learning for biomedical big data applications

*Proceedings of the International Conference on Electromagnetic Interference and Compatibility '97, 3-5 December, 1997, Hyderabad, India, 1999* *Proceedings of the International Conference on Electromagnetic Interference and Compatibility, 1999*

**Elements of Engineering Electromagnetics** Nannapaneni Narayana Rao, 1991 Emphasizing practical applications this approach integrates IBM PC BASIC programs and numerical techniques with the principles of engineering electromagnetics This book discusses on line parameters by numerical techniques and inserts a section on capacitance conductance and inductance

**IEEE Circuits & Devices**, 1993

**Radar and Laser Cross Section Engineering** David C. Jenn, 2005 There have been many new developments in the ten years since the first edition of Radar and Laser Cross Section Engineering was published Stealth

technology is now an important consideration in the design of all types of platforms The second edition includes a more extensive introduction that covers the important aspects of stealth technology and the unique tradeoffs involved in stealth design Prediction reduction and measurement of electromagnetic scattering from complex three dimensional targets remains the primary emphasis of this text developed by the author from courses taught at the Naval Postgraduate School New topics on computational methods like the finite element method and the finite integration technique are covered as well as new areas in the application of radar absorbing material and artificial metamaterials Matlab registered software homework problems and a solution manual available to instructors supplement the text Written as an instructional text this book is recommended for upper level undergraduate and graduate students introduction to the physics and mathematics of radar cross section in order to better understand the interdisciplinary aspects of stealth Matlab is a registered trademark of The MathWorks Inc

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Prasad Kodali,2001-01-19 Electrical Engineering Engineering Electromagnetic Compatibility Principles Measurements Technologies and Computer Models Second Edition This practical enhanced second edition will teach you to avoid costly post design electromagnetic compatibility EMC fixes Once again V Prasad Kodali provides a comprehensive introduction to EMC and presents current technical information on sources of electromagnetic interference EMI EMC EMI measurements technologies to control EMI computer simulation and design and international EMC standards Features added to this second edition include Two new chapters covering EMC computer modeling and simulation and signal integrity Expanded assignments at the close of each chapter Illustrative examples that enhance comprehension Updated information in Selected Bibliography and EMC Standards chapters A new appendix that lists websites relevant to EMC EMI Engineering Electromagnetic Compatibility Second Edition is presented in a concise user friendly format that combines a rigorous solutions based mathematical treatment of the underlying theories of EMC with the most recent practical applications It is ideally suited as a desk reference for practicing engineers and as a textbook for students who need to understand the form and function of EMC and its relevance to a variety of systems

**Radio-electronics** ,1953

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