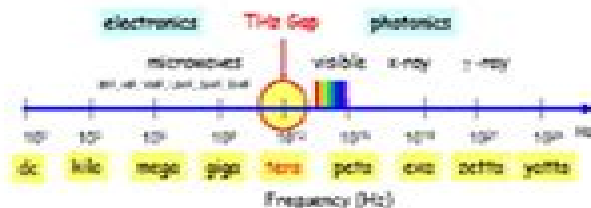


Chapter 7: Plane Electromagnetic Waves and Wave Propagation

T-Ray: Next frontier in Science and Technology

Terahertz wave (or **T-ray**), which is electromagnetic radiation in a frequency interval from 0.1 to 30 THz, lies a frequency range with rich science but limited technology.



1 THz ~ 1 ps ~ 300 μm ~ 33 cm⁻¹ ~ 4.1 meV ~ 47.6 °K

1

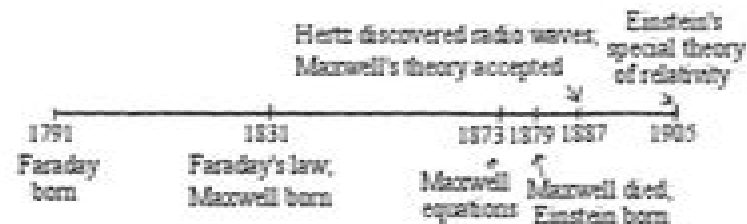
An Historical Perspective:



Faraday : Time-varying magnetic field generates electric field

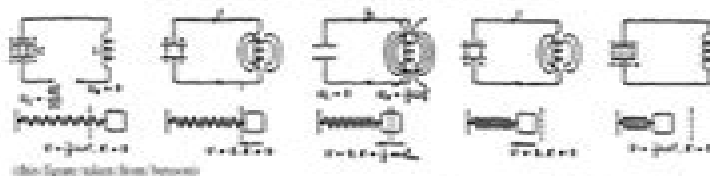


Maxwell : Time-varying electric field generates magnetic field



2

A Note about Oscillatory Behavior:



Common feature of oscillatory behavior:



⇒ Oscillations require $\left\{ \begin{array}{l} \text{energy storing mechanisms} \\ \text{energy exchange mechanism(s)} \end{array} \right.$

example	energy storing mechanisms	energy exchange mechanism(s)	medium
mass-spring system	$\frac{1}{2}mv^2, \frac{1}{2}kx^2$	restoring force	mass & spring
LC oscillator	$\frac{1}{2}LI^2, \frac{1}{2}CV^2$	Q, I	$L, C,$ & wire
EM wave	$\frac{\epsilon_0}{2}E^2, \frac{\mu_0}{2}H^2$	$\frac{dE}{dt}, \frac{dH}{dt}$	not required

Organization of Lecture Notes on Ch. 7:

In Jackson, plane waves in dielectric media are treated in Secs. 7.1 and 7.2. Various special cases (plasma medium and high-frequency limit) are treated in Sec. 7.5. Plane waves in conductors are treated in Sec. 5.18 [e.g. Eqs. (5.163)-(5.169)] and Sec. 8.1 [e.g. Eqs. (8.9), (8.10), (8.12), (8.14), and (8.15)] by methods different from those in Secs. 7.1 and 7.2.

Here, we will cover these sections in Jackson with a unified treatment of plane waves in both dielectrics and conductors, and at all frequencies. Equations in Jackson will be examined in greater detail, but in somewhat different order. So, in the lecture notes, the three sections on these materials will be numbered Secs. I, II, and III rather than following Jackson's section numbers. However, Secs. 7.3, 7.4, 7.8, and 7.9 of Jackson will be followed closely in subsequent lecture notes (and numbered as in Jackson).

We begin with a derivation of the generalized dielectric constant d_g , which is applicable to both dielectric and conducting media.

4

Chapter 7 Plane Electromagnetic Waves An Historical

Charles E.S. Phillips



Chapter 7 Plane Electromagnetic Waves An Historical:

An Introduction to Classical Electromagnetic Radiation Glenn S. Smith, 1997-08-13 This book provides a thorough description of classical electromagnetic radiation starting from Maxwell's equations and moving on to show how fundamental concepts are applied in a wide variety of examples from areas such as classical optics antenna analysis and electromagnetic scattering Throughout the author interweaves theoretical and experimental results to help give insight into the physical and historical foundations of the subject A key feature of the book is that pulsed and time harmonic signals are presented on an equal footing Mathematical and physical explanations are enhanced by a wealth of illustrations over 300 and the book includes more than 140 problems It can be used as a textbook for advanced undergraduate and graduate courses in electrical engineering and physics and will also be of interest to scientists and engineers working in applied electromagnetics A solutions manual is available on request for lecturers adopting the text

Bibliography of X-ray Literature and Research (1896-1897), with an Historical Retrospect and a Chapter 'Practical Hints'. Charles E.S. Phillips, 1897

Classical Electrodynamics John David Jackson, 1962 Problems after each chapter

Einstein's Space-Time Rafael Ferraro, 2007-09-23 This excellent textbook offers a unique take on relativity theory setting it in its historical context Ideal for those interested in relativity and the history of physics the book contains a complete account of special relativity that begins with the historical analysis of the reasons that led to a change in our view of space and time Its aim is to foster a deep understanding of relativistic spacetime and its consequences for Dynamics

Modern Electromagnetic Scattering Theory with Applications Andrey V. Osipov, Sergei A. Tretyakov, 2017-04-17 This self contained book gives fundamental knowledge about scattering and diffraction of electromagnetic waves and fills the gap between general electromagnetic theory courses and collections of engineering formulas The book is a tutorial for advanced students learning the mathematics and physics of electromagnetic scattering and curious to know how engineering concepts and techniques relate to the foundations of electromagnetics

Foundations of Interior Design Susan J. Slotkis, Yelena McLane, 2025-02-20 Foundations of Interior Design 4th Edition introduces the fascinating world of interior design practice The authors provide an overview of the interior design profession introducing readers to the elements and principles of design key historical movements the role of color and lighting in interiors and the increasing emphasis on technology sustainable design social justice and health and safety in contemporary interior design practice This revised edition examines an array of human and environmental considerations in designing residential interiors commercial offices and workspaces and social and community oriented projects reflecting the diverse areas in which interior design is practiced The new edition places greater emphasis on commercial interiors expands on space planning standards includes case studies of recent projects and insightful advice from practicing interior designers

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Guide provides suggestions for planning the course and using the text in the classroom supplemental assignments and lecture notes PowerPoint presentations include images from the book and provides a framework for lecture and discussion

Electromagnetic Composites Handbook, Second Edition Rick Moore, 2016-04-18 Theoretical computational and experimental electromagnetic modeling and characterization This engineering and scientific handbook offers extensive coverage of electromagnetic modeling and characterization of composite materials from the theoretical computational and experimental points of view You will get unique data for non conducting dielectrics semiconducting conducting and magnetic materials and composites composed of two or more molecularly distinct compounds The goal of the book is to contribute to current and visionary electromagnetic composite applications and extend the existing database for composites

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Students' Guide to Submarine Cable Testing H. K. C. Fisher, 1908

Electromagnetic Waves Carlo G. Someda, 2017-12-19 Adapted from a successful and thoroughly field tested Italian text the first edition of *Electromagnetic Waves* was very well received Its broad integrated coverage of electromagnetic waves and their applications forms the cornerstone on which the author based this second edition Working from Maxwell s equations to applications in optical communications and photonics *Electromagnetic Waves Second Edition* forges a link between basic physics and real life problems in wave propagation and radiation Accomplished researcher and educator Carlo G Someda uses a modern approach to the subject Unlike other books in the field it surveys all major areas of electromagnetic waves in a single treatment The book begins with a detailed treatment of the mathematics of Maxwell s equations It follows with a discussion of polarization delves into propagation in various media devotes four chapters to guided propagation links the concepts to practical applications and concludes with radiation diffraction coherence and radiation statistics This edition features many new and reworked problems updated references and suggestions for further reading a completely revised appendix on Bessel functions and new definitions such as antenna effective height Illustrating the concepts with examples in every chapter

Electromagnetic Waves Second Edition is an ideal introduction for those new to the field as well as a convenient reference for seasoned professionals

Æther Hugh Woods, 1906

Engineering Electromagnetics Explained Lakshman Kalyan, 2025-02-20 *Engineering Electromagnetics Explained* is a comprehensive textbook designed to provide students with a solid foundation in the principles and applications of electromagnetics Written by leading experts this book covers fundamental concepts theoretical frameworks and practical applications in engineering We start with basic principles of electromagnetism including Coulomb s Law Gauss s Law and Maxwell s Equations then delve into advanced topics such as

electromagnetic waves transmission lines waveguides antennas and electromagnetic compatibility EMC Key Features Clear and concise explanations of fundamental electromagnetics concepts Numerous examples and illustrations to aid understanding Practical applications and real world examples demonstrating electromagnetics relevance in engineering Comprehensive coverage of topics including transmission lines waveguides antennas and EMC End of chapter problems and exercises to reinforce learning This textbook is suitable for undergraduate and graduate students in electrical engineering electronics and communication engineering and related disciplines It serves as an essential resource for courses on electromagnetics electromagnetic field theory and electromagnetic compatibility Additionally practicing engineers and researchers will find this book a valuable reference for understanding and applying electromagnetics principles in their work

The Electric Furnace in Iron and Steel Production John Baker Cannington Kershaw,1907 **Electricity Meters: Their Construction and Management** Charles Henry William Gerhardi,1906 **Microwave Engineering** David M. Pozar,2012-04-13 The 4th edition of this classic text provides a thorough coverage of RF and microwave engineering concepts starting from fundamental principles of electrical engineering with applications to microwave circuits and devices of practical importance Coverage includes microwave network analysis impedance matching directional couplers and hybrids microwave filters ferrite devices noise nonlinear effects and the design of microwave oscillators amplifiers and mixers Material on microwave and RF systems includes wireless communications radar radiometry and radiation hazards A large number of examples and end of chapter problems test the reader s understanding of the material The 4th edition includes new and updated material on systems noise active devices and circuits power waves transients RF CMOS circuits and more

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