

Read Free  
Electromagnetic  
Wave Sample  
Problem And  
Solution

# **Electromag netic Wave Sample Problem And Solution**

*This volume is  
based on the  
contributions of*

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*several authors in  
electromagnetic  
waves propagations.  
Several issues are  
considered. The  
contents of most of  
the chapters are  
highlighting non  
classic presentation  
of wave propagation  
and interaction with  
matters. This volume  
bridges the gap*

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*between physics and engineering in these issues. Each chapter keeps the author notation that the reader should be aware of as he reads from chapter to the other.*

*Essential Advanced Physics is a series comprising four parts: Classical*

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Mechanics,  
Classical  
Electrodynamics,  
Quantum Mechanics  
and Statistical  
Mechanics. Each  
part consists of two  
volumes, Lecture  
notes and Problems  
with solutions,  
further  
supplemented by an  
additional collection

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*of test problems and solutions available to qualifying university*

*instructors. This volume, Classical Electrodynamics: Lecture notes is intended to be the basis for a two-semester graduate-level course on electricity and*

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*magnetism, including not only the interaction and dynamics charged point particles, but also properties of dielectric, conducting, and magnetic media. The course also covers special relativity, including its kinematics and*

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*particle-dynamics  
aspects, and  
electromagnetic  
radiation by  
relativistic particles.*

*An Invitation to  
Applied  
Mathematics:  
Differential  
Equations,  
Modeling, and  
Computation  
introduces the*

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*reader to the methodology of modern applied mathematics in modeling, analysis, and scientific computing with emphasis on the use of ordinary and partial differential equations. Each topic is introduced with an attractive*



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*physical problem,  
where a  
mathematical model  
is constructed using  
physical and  
constitutive laws  
arising from the  
conservation of  
mass, conservation  
of momentum, or  
Maxwell's  
electrodynamics.*

*Relevant*

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*mathematical analysis (which might employ vector calculus, Fourier series, nonlinear ODEs, bifurcation theory, perturbation theory, potential theory, control theory, or probability theory) or scientific computing (which might include*

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*Newton's method,  
the method of lines,  
finite differences,  
finite elements, finite  
volumes, boundary  
elements, projection  
methods, smoothed  
particle  
hydrodynamics, or  
Lagrangian  
methods) is  
developed in context  
and used to make*

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*physically significant  
predictions. The  
target audience is  
advanced  
undergraduates  
(who have at least a  
working knowledge  
of vector calculus  
and linear ordinary  
differential  
equations) or  
beginning graduate  
students. Readers*

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*Wave Sample  
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*will gain a solid and  
exciting introduction  
to modeling,  
mathematical  
analysis, and  
computation that  
provides the key  
ideas and skills  
needed to enter the  
wider world of  
modern applied  
mathematics.*

*Presents an*

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*integrated wealth of  
modeling, analysis,  
and numerical*

*methods in one  
volume Provides*

*practical and  
comprehensible*

*introductions to  
complex subjects,*

*for example,  
conservation laws,*

*CFD, SPH, BEM,  
and FEM Includes a*

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*rich set of  
applications, with  
more appealing  
problems and  
projects suggested*

*The inverse  
scattering problem is  
central to many  
areas of science  
and technology such  
as radar, sonar,  
medical imaging,  
geophysical*

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*exploration and  
nondestructive  
testing. This book is  
devoted to the  
mathematical and  
numerical analysis  
of the inverse  
scattering problem  
for acoustic and  
electromagnetic  
waves. In this fourth  
edition, a number of  
significant additions*



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*have been made including a new chapter on transmission eigenvalues and a new section on the impedance boundary condition where particular attention has been made to the generalized impedance*

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*boundary condition  
and to nonlocal  
impedance*

*boundary conditions.*

*Brief discussions on*

*the generalized*

*linear sampling*

*method, the method*

*of recursive*

*linearization,*

*anisotropic media*

*and the use of target*

*signatures in inverse*

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scattering theory  
Problem And  
Solution  
have also been  
added.

*Electromagnetic  
Wave Propagation  
in Turbulence  
University Physics  
Evaluation and  
Application of Mellin  
Transforms  
A Very Short  
Introduction  
An Introduction To*

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Solution  
*Electromagnetic  
Wave Propagation  
And Antennas*

*"University Physics  
is a three-volume  
collection that meets  
the scope and  
sequence  
requirements for  
two- and three-  
semester calculus-  
based physics*

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courses. Volume 1  
Problem And  
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*covers mechanics,  
sound, oscillations,  
and waves. This  
textbook emphasizes  
connections between  
theory and  
application, making  
physics concepts  
interesting and  
accessible to  
students while*

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*maintaining the mathematical rigor inherent in the subject. Frequent, strong examples focus on how to approach a problem, how to work with the equations, and how to check and generalize the result."* --Open

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*Textbook Library.*

*This book discusses  
the development of  
radio-wave  
tomography methods  
as a means of  
remote non-  
destructive testing,  
diagnostics of the  
internal structure of  
semi-transparent  
media, and*

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*reconstruction of  
the shapes of  
opaque objects based  
on multi-angle  
sounding. It  
describes physical-  
mathematical  
models of systems  
designed to  
reconstruct images  
of hidden objects,  
based on*



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*tomographic  
processing of multi-  
angle remote  
measurements of  
scattered radio and  
acoustic (ultrasonic)  
wave radiation.  
Clear, coherent  
work for graduate-  
level study discusses  
the Maxwell field  
equations, radiation*

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*from wire antennas,  
wave aspects of  
radio-astronomical  
antenna theory, the  
Doppler effect, and  
more.*

*This text should  
serve as an  
introduction to the  
application of  
electromagnetics  
EM, following an*

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*initial course in  
basic EM theory. A  
particular feature  
of the book is that it  
examines time  
domain rather than  
frequency domain  
methods in depth.;  
This book is  
intended for  
advanced  
undergraduate and*

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*graduates in  
electrical and  
electronic*

*engineering.*

*Research and  
practitioners in  
electromagnetics in  
electrical and  
electronic  
engineering and  
physics.*

*Differential*

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*Equations,  
Modeling, and  
Computation*

*Electromagnetic  
Waves in Stratified  
Media*

*Waves*

*Photonic Band Gaps  
and Localization*

*Direct and Inverse  
Problems in  
Practical*

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*Applications*

This volume  
contains the  
papers  
presented at  
the NATO  
Advanced  
Research  
Workshop on  
Localization  
and Propagation  
of Classical  
Waves in Random

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Electromagnetic  
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and Periodic  
Media held in  
Problem And  
Solution  
Aghia Pelaghia,  
Heraklion,  
Crete, May 26-  
30, 1992. The  
workshop's goal  
was to bring  
together  
theorists and e  
xperimentalists  
from two  
related areas,

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Solution

localization  
and photonic  
band gaps, to  
highlight their  
common  
interests. The  
objectives of  
the workshop  
were (i) to  
assess the  
state of-the-  
art in  
experimental



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and theoretical  
studies of  
structures  
exhibiting  
classical wave  
band gaps  
and/or  
localization,  
(ii) to discuss  
how such  
structures can  
be fabricated  
to improve

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technologies in  
different areas  
of physics and  
engineering,  
and (iii) to  
identify  
problems and  
set goals for  
further  
research.  
Studies of the  
propagation of  
electromagnetic

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Wave Sample

(EM) waves in  
Problem And  
Solution  
periodic and/or  
disordered  
dielectric  
structures  
(photonic band  
gap structures)  
have been and  
continue to be  
a dynamic area  
of research.

Anderson

localization of

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Solution

EM waves in disordered dielectric structures is of fundamental interest where the strong  $e_i-e_i$  interaction effects entering the  $eI$  electron-localization are absent.

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**Electromagnetic  
Wave  
Propagation in  
Turbulence is  
devoted to a  
method for  
obtaining  
analytical  
solutions to  
problems of  
electromagnetic  
wave  
propagation in**

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turbulence. In  
Problem And  
Solution  
a systematic  
way the  
monograph  
presents the  
Mellin  
transforms to  
evaluate  
analytically  
integrals that  
are not in  
integral  
tables. Ample

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examples of  
Problem And  
Solution  
application are  
outlined and  
solutions for  
many problems  
in turbulence  
theory are  
given. The  
method itself  
relates to  
asymptotic  
results that  
are applicable

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to a broad  
class of  
problems for  
which many  
asymptotic  
methods had to  
be employed  
previously.

Adapted from a  
successful and  
thoroughly  
field-tested  
Italian text,



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the first  
Problem And  
edition of  
Solution  
Electromagnetic  
Waves was very  
well received.  
Its broad,  
integrated  
coverage of  
electromagnetic  
waves and their  
applications  
forms the  
cornerstone on

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which the  
author based  
this second  
edition.

Working from  
Maxwell's  
equations to  
applications in  
optical  
communications  
and photonics,  
Electromagnetic  
Waves, Second

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**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**

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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

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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,

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links the  
concepts to  
practical  
applications,  
and concludes  
with radiation,  
diffraction,  
coherence, and  
radiation  
statistics.

This edition  
features many  
new and

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reworked  
problems,  
updated  
references and  
suggestions for  
further  
reading, a  
completely  
revised  
appendix on  
Bessel  
functions, and  
new definitions

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such as antenna  
Problem And  
effective  
Solution  
height.

Illustrating  
the concepts  
with examples  
in every  
chapter,  
Electromagnetic  
Waves, Second  
Edition is an  
ideal  
introduction



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for those new  
to the field as  
well as a  
convenient  
reference for  
seasoned  
professionals.  
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for AP®  
Courses Part 1:  
Chapters 1-17  
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Waves in

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Wave Fields in  
Solution  
Real Media

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Wave Scattering  
on Nonspherical  
Particles

Electromagnetic  
Wave Theory for  
Boundary-Value  
Problems

Electromagnetic  
Radiation,

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## Wave Sample Problem And Solution **Scattering, and Diffraction**

Long recognized as a classic in the field, this book offers comprehensive coverage of radio waves in stratified media. Well-known authority James R. Wait guides you

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through a broad range of physical problems using a wealth of experimental data that is particularly relevant to current studies of radiowave transmission in both terrestrial and extraterrestrial

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environments.

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Waves in Stratified

Media features a

clear explanation of

the Mode Theory of

wave propagation,

complete with

supporting physical

examples; a concise

analysis of modes,

rays, and their

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equivalencies;  
thorough coverage  
of asymptotic (high-  
frequency)  
developments;  
applications to  
telecommunications  
for frequencies  
from ELF to SHF  
(10 Hz to Gig Hz);  
and much more. It  
is a must-have book

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Solution  
for every engineer  
in the field.

This book  
endeavors to give  
the reader a strong  
base in the  
advanced theory of  
electromagnetic  
waves and its  
applications, while  
keeping pace with  
research in various

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other disciplines that apply electrostatics/electrodynamics theory. The treatment is highly mathematical, which tends to obscure the principles involved. This highly illustrated and accessible text will



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be an ideal  
introduction to the  
application of  
electromagnetics  
(EM) following an  
initial course in  
basic EM theory.  
The book covers  
the well established  
structure of  
elementary EM  
courses, beginning

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with Maxwell's equations in integral form and developing the wave equation to show the essential properties of waves. In addition to providing a grounding in this traditional curriculum, the

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principal concern  
throughout is to  
make difficult  
concepts of  
electromagnetism  
more accessible.  
The adoption of  
time domain  
methods for this  
purpose is the  
book's most  
important

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breakthrough,  
allowing the  
fundamentals of  
applied  
electromagnetics to  
be introduced with  
a clarity and  
simplicity not  
available through  
the conventional  
route. Another new  
aspect of this book

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is the integration of  
computational

modelling methods

with the standard

theory of

electromagnetic

waves. The author

presents a set of

example programs

written in the

MATLAB language

to support the ideas

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outlined in the text.  
The book is  
organized in a  
logical progression  
of ideas, starting  
with the general  
idea of wave  
motion and  
showing how the  
equations of  
electricity and  
magnetism lead to

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the existence of electromagnetic waves through the Maxwell's equations. These ideas are then applied to simple accelerating charge models used in the engineering design of wire antennas. The concepts of

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resonance and antenna impedance are then treated from a time domain point of view. To reinforce the concepts of wave propagation, a chapter on computer modelling shows the rigorous



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procedures  
required to  
generate accurate  
numerical models  
of wave dynamics.  
The author extends  
these ideas to  
consider the  
properties of  
aperture antennas,  
showing how their  
important

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properties can be incorporated with the basic themes introduced earlier in the book.

Finally, the important topic of wave scattering is introduced, once again from the point of view of time domain

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concepts.

Problem And  
Solution  
This textbook  
provides a solid  
foundation into  
many approaches  
that are used in the  
analysis of  
advanced  
electromagnetic  
wave propagation  
problems. The  
techniques

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discussed are essential to obtain closed-form solutions or asymptotic solutions and meet an existing need for instructors and students in electromagnetic theory. The book covers various

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advanced  
mathematical  
methods used in the  
evaluation of the  
electromagnetic  
fields in  
rectangular,  
cylindrical and  
spherical  
geometries. The  
mathematics of  
special functions

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(i.e., Bessel, Hankel, Airy, Legendre, Error, etc.) are covered in depth, including appropriate Appendices. The author takes particular care to provide detailed explanations of auxiliary potentials,

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Hertz's vectors,  
Debye potentials, as  
well as the use of  
Green functions,  
the Watson  
transformation and  
the method of  
steepest descent in  
the solution of  
electromagnetic  
problems. Overall,  
Advanced

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Electromagnetic  
Wave Propagation  
Methods is a good  
source for the  
many skills  
required in  
obtaining closed  
form and  
asymptotic  
solution, which in  
many instances  
cannot be obtained



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using computer codes of Maxwell's equations. Thus, it provides an excellent training for preparing graduate students in their research work. This book is intended for a graduate course in electromagnetic

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theory for students  
in electrical  
engineering.

Students in physics  
and professionals  
will also find it  
appropriate and  
useful.

Electromagnetic  
Wave Diffraction  
by Conducting  
Screens

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pseudodifferential  
operators in  
diffraction  
problems  
Analysis Methods  
for  
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Wave Problems  
Electromagnetic  
Wave Theory  
College Physics

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*Electromagnetic  
Radiation,  
Scattering, and  
Diffraction*

*Discover a  
graduate-level  
text for students  
specializing in  
electromagnetic  
wave radiation,  
scattering, and  
diffraction for*

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engineering  
Problem And  
Solution  
applications In  
Electromagnetic  
Radiation,  
Scattering and  
Diffraction,  
distinguished  
authors Drs.  
Prabhakar H.  
Pathak and  
Robert J.  
Burkholder

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*deliver a thorough exploration of the behavior of electromagnetic fields in radiation, scattering, and guided wave environments.*

*The book tackles its subject from first principles and includes*

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*coverage of low  
and high  
frequencies. It  
stresses physical  
interpretations of  
the  
electromagnetic  
wave phenomena  
along with their  
underlying  
mathematics. The  
authors*

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Solution

*emphasize  
fundamental  
principles and  
provide numerous  
examples to  
illustrate the  
concepts  
contained within.  
Students with a  
limited  
undergraduate  
electromagnetic*



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*background will rapidly and systematically advance their understanding of electromagnetic wave theory until they can complete useful and important graduate-level work on*

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*electromagnetic  
wave problems.  
Electromagnetic  
Radiation,  
Scattering and  
Diffraction also  
serves as a  
practical  
companion for  
students trying to  
simulate problems  
with commercial*

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*EM software and trying to better interpret their results. Readers will also benefit from the breadth and depth of topics, such as: Basic equations governing all electromagnetic (EM) phenomena*

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*at macroscopic  
scales are  
presented  
systematically.  
Stationary and  
relativistic moving  
boundary  
conditions are  
developed. Waves  
in planar  
multilayered  
isotropic and*

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*anisotropic media are analyzed. EM theorems are introduced and applied to a variety of useful antenna problems. Modal techniques are presented for analyzing guided wave and periodic*

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structures.

Potential theory  
and Green's  
function methods  
are developed to  
treat interior and  
exterior EM  
problems.

Asymptotic High  
Frequency  
methods are  
developed for

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evaluating  
radiation  
Problem And  
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*Integrals to  
extract ray fields.  
Edge and surface  
diffracted ray  
fields, as well as  
surface, leaky and  
lateral wave fields  
are obtained. A  
collective ray  
analysis for finite*

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*conformal  
antenna phased  
arrays is*

*developed. EM  
beams are  
introduced and  
provide useful  
basis functions.  
Integral equations  
and their  
numerical  
solutions via the*



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*method of moments are developed. The fast multipole method is presented. Low frequency breakdown is studied.*

*Characteristic modes are discussed. Perfect*

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*for graduate  
students studying  
electromagnetic  
theory,*

*Electromagnetic  
Radiation,*

*Scattering, and  
Diffraction is an  
invaluable*

*resource for  
professional  
electromagnetic*

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*engineers and  
researchers  
working in this  
area.*

*This is a first year  
graduate text on  
electromagnetic  
field theory  
emphasizing  
mathematical  
approaches,  
problem solving*

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*and physical interpretation.*

*Examples deal with guidance, propagation, radiation and scattering of electromagnetic waves, metallic and dielectric wave guides, resonators,*

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*antennas and  
radiating  
structures,  
Cerenkov  
radiation, moving  
media, plasmas,  
crystals,  
integrated optics,  
lasers and fibers,  
remote sensing,  
geophysical  
probing, dipole*

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*antennas and stratified media. Here are the newest methods for using computers to design linear antennas and microwave printed circuits. Learn how to use supercomputers*

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*to apply the FD-TD and the FE methods, and how to develop computation programs. Includes the methods of antenna analysis with integral equation, physical optics*

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*approximation,  
electromagnetic  
wave scattering  
due to random  
surface, eigen  
function  
expansion, and  
rectangular  
boundary division.  
Features practice  
problems and  
answers, plus*



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*examples of  
actual calculation  
programs. With  
132 diagrams and  
1121 equations.  
This book gives  
guidance to solve  
problems in  
electromagnetics,  
providing both  
examples of  
solving serious*

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research  
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Solution

*problems as well  
as the original  
results to  
encourage further  
investigations.*

*The book contains  
seven chapters on  
various aspects of  
resonant wave  
scattering, each  
solving one*

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*original problem.  
All of them are  
unified by the  
authors' desire to  
show advantages  
of rigorous  
approaches at all  
stages, from the  
formulation of a  
problem and the  
selection of a  
method to the*

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*interpretation of  
results. The book  
reveals a range of  
problems  
associated with  
wave propagation  
and scattering in  
natural and  
artificial  
environments or  
with the design of  
antennas*

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*elements. The authors invoke both theoretical (analytical and numerical) and experimental techniques for handling the problems.*

*Attention is given to mathematical simulations,*

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*computational  
efficiency, and  
physical*

*interpretation of  
the experimental  
results. The book  
is written for  
students,  
graduate students  
and young  
researchers.  
Advanced*

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*Electromagnetic  
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and Acoustic  
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*Problem And  
Solution*  
*Electromagnetic  
Waves and Lasers*  
*This book reviews  
basic  
electromagnetic  
(EM) wave theory  
and applies it  
specifically to  
lasers in order to  
give the reader  
not only tangible  
examples of how*



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*the theory is manifested in real life, but also practical knowledge about lasers, and their operation and usage. The latter can be useful for those involved with using lasers. As a short treatise on this*

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*subject matter, this book is not intended to dwell deeply into the details of EM waves nor lasers. A bibliography is provided for those who wish to explore in more depth the topics covered in this book. Rather the*

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*aim of this book is to offer a quick overview, which will allow the reader to gain a competent general understanding of EM waves and lasers.*

*In this book, a wide range of different topics*

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*related to analytical as well as numerical solutions of problems related to scattering, propagation, radiation, and emission in different medium are discussed.*

*Design of several devices and their*

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measurements  
aspects are  
introduced.

*Topics related to  
microwave region  
as well as  
Terahertz and  
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region are  
considered. Bi-  
isotropic  
metamaterial in  
optical region is*

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*investigated.  
Interesting  
numerical  
methods in  
frequency domain  
and time domain  
for scattering,  
radiation, forward  
as well as reverse  
problems and  
microwave  
imaging are  
summarized.*

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*Therefore, the book will satisfy different tastes for engineers interested for example in microwave engineering, antennas, and numerical methods.*

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engineers and  
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*electromagnetic applications are described. New topics have been added to this edition including Sobolev spaces, vector optimization, absorbing boundary conditions, and surface radiation*

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book the*

*fundamentals of  
electromagnetic*

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*fields and waves  
are discussed  
based on the  
great Maxwell  
equations. The  
book is  
conceived as a  
textbook for  
serious technical  
and classical  
universities in the  
considered*

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**themes.**

**Nevertheless, it  
can be used, of  
course, as the  
reference book  
for wide group of  
engineers,  
researches and  
practical experts.  
Material of this  
book is divided  
into four main**

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***parts connected  
between them.***

***The first part  
(Fundamental of  
Electrodynamics)  
is devoted to  
explanation of  
Maxwell  
equations and  
methods of its  
solutions.***

***Besides classical***

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***interpretation the  
generalized  
equations are  
discussed, which  
take into  
consideration the  
scalar magnetic  
fields. New  
approaches allow  
description of so-  
called  
longitudinal***

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***electromagnetic  
waves, which  
have the  
absolutely non-  
standard  
propagation  
properties, and  
permit to explain  
various  
electrodynamics  
paradoxes, which  
cannot be***

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***explained in  
another way. The  
main***

***characteristics of  
wave processes  
in the free space  
and in  
transmission  
lines (feeders)  
are described.***

***The second part  
(Radio Wave***

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***Propagation)***  
***investigates the***  
***obvious patterns***  
***of diffraction and***  
***interference***  
***phenomena at***  
***radio wave***  
***propagation for***  
***the obstacle***  
***presence in the***  
***propagation***  
***track, which is***



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***typical for all  
practical  
situations. Radio  
wave propagation  
of various  
frequency ranges  
is fulfilled  
separately taking  
into  
consideration the  
specific features  
of reflections***

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***from the  
atmosphere  
parts, attenuation  
in different  
media, types of  
propagating  
waves, multipath  
effects,  
diffraction and  
non-standard  
conditions of  
obstacle***

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***overcoming  
including non-  
usual ways of  
atmosphere  
ducts. The third  
part is devoted to  
description of  
various types and  
antennas,  
beginning from  
simplest  
(vibrators) and***

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*ending by  
complicate  
adaptive antenna  
arrays.*

*Description is  
fulfilled on the  
reviewing level  
with many  
obvious figures,  
not to rely on  
strict  
mathematical*

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***methods, but  
rather on the  
concept level.***

***Fourth part  
includes  
description of  
UHF devices,  
which are the  
elements' base of  
UHF devices  
including surface  
and bulk***

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***integrated UHF circuits. These results have in many aspects the pioneer character and they are not widely known to experts.***

***Distinctive feature of the offered book is sufficiently***

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***simplifies  
description of the  
very complicated  
electrodynamics  
problems  
available for the  
modern students  
and for young  
engineers. Of  
course, it is  
impossible to  
deal without***

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***mathematics in  
theses areas but  
required***

***mathematics can  
be replaced by  
the many  
patterns, which  
give the chance  
to understand  
problems and to  
determine the  
complex***



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AND  
WAVESCHAPTER  
3. MAIN  
PHYSICAL  
PHENOMENA AT  
RADIO WAVES P**

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**PROPAGATION CH  
APTER 4.  
PROPAGATION  
OF RADIO  
WAVES OF  
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RANGES AND  
ITS  
APPLICATION  
AREAS CHAPTER  
5. PRINCIPAL CH  
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7. ANTENNAS OF  
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9. ANTENNAS  
FOR TV, RADIO  
RELAY AND  
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ICATION  
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COMPATIBILITY  
OF RADIO  
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ANTENNAS AND  
THE PROBLEM  
OF ITS MINIATUR  
IZATION**  
**CHAPTER 11. MAIN  
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Real Media: Wave  
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***Anisotropic,  
Anelastic, Porous  
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Media examines  
the differences  
between an ideal  
and a real  
description of  
wave  
propagation,  
starting with the***

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**introduction of  
relevant stress-  
strain relations.**

**The combination  
of this relation  
and the  
equations of  
momentum  
conservation lead  
to the equation of  
motion. The  
differential**

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***formulation is written in terms of memory variables, and Biot's theory is used to describe wave propagation in porous media. For each rheology, a plane-wave analysis is performed in***

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***order to  
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main direct  
numerical  
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equation of  
motion in the***

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Media while also  
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***necessary to  
understand the  
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anisotropic,  
anelastic and  
porous media  
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equations and  
concepts  
necessary to  
understand the  
physics of wave  
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**solutions, elements  
of potential theory,  
and other  
underlying  
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out to be extremely  
effective, differ  
significantly from  
the known  
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'produced' by  
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magnetostatics  
and Maxwell's  
equations to  
plasmas and  
radiation.

Boundary value  
problems are  
treated  
extensively, as are  
wave guides,  
electromagnetic

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interactions and fields. This second edition comprises many of the topics expanded with more details on the derivation of various equations, particularly in the second half of the book that focuses on rather advanced topics.

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based on  
Maxwell's  
equations, and  
electromagnetic  
boundary-value  
problems must be  
solved to  
understand  
electromagnetic  
scattering,  
propagation, and  
radiation.

Electromagnetic



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theory finds practical applications in wireless telecomm unications and microwave engineering. This book is written as a text for a two-semester graduate course on electromagnetic wave theory. As

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such,

# Problem And Solution

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Wave Theory for

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Problems is  
intended to help  
students enhance  
analytic skills by  
solving pertinent  
boundary-value  
problems. In  
particular, the  
techniques of

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Fourier transform,  
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mode matching,  
and residue  
calculus are  
utilized to solve  
some canonical  
scattering and  
radiation  
problems.

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detailed overview  
of the theory of  
electromagnetic

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wave scattering on single, homogeneous, but nonspherical particles. Beside the systematically developed Green's function formalism of the first edition this second and enlarged edition contains additional

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material regarding  
group theoretical  
considerations for  
nonspherical  
particles with  
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symmetries, an  
iterative T-matrix  
scheme for  
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solutions, and two  
additional but  
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basic

electromagnetic  
theorems —

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uniqueness, and reciprocity — explained from a physical perspective. Progresses from simple wave propagation in unbounded free space to antenna and resonator design. Presents the fundamental concepts of plane

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Problem And  
Solution  
waves, phasors,  
polarization,  
energy, power, and  
force early — and  
repeatedly applies  
them throughout  
the text to  
problems with  
progressively  
more complex  
boundary  
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waves to  
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waves in the*

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*natural world,  
and considers  
the range of  
phenomena  
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wave motion,  
including  
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diffraction,  
and  
polarization  
in light, and*

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