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development of the  
subject matter.  
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concepts and clear  
mathematical

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derivations

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ideas and applications used today. Part one covers fundamentals of electromagnetic wave propagation, radiation, and scattering. It provides ample end-of-chapter problems and offers a 90-page solution manual to help readers check and comprehend their work. The second part

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of the book explores up-to-date applications of electromagnetic waves—including radiometry, geophysical remote sensing and imaging, and biomedical and signal processing applications. Written by a world renowned authority in the field of electromagnetic

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research, this new edition of Electromagnetic Wave Propagation, Radiation, and Scattering: From Fundamentals to Applications presents detailed applications with useful appendices, including mathematical formulas, Airy function, Abel's

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equation, Hilbert transform, and Riemann surfaces.

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New phenomena of multiple scattering,



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such as coherent  
scattering and  
memory effects

Multiphysics  
applications that  
combine theories for  
different physical  
phenomena, such as  
seismic coda waves,  
stochastic wave  
theory, heat diffusion,  
and temperature rise  
in biological and other  
media Metamaterials

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and solitons in optical fibers, nonlinear phenomena, and porous media

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bioengineering, geophysics, ocean engineering, and geophysical remote sensing. The book is also a useful reference for engineers and scientists working in fields such as geophysical remote sensing, bio – medical engineering in optics and ultrasound, and

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new materials and  
integration with signal  
processing.

This book is a  
comprehensive text in  
the field of quantum  
mechanics, covering  
fundamental concepts  
including the state of  
a quantum  
mechanical system,  
operators,  
superposition  
principle and

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measurement

postulate. The notion of an operator and the algebra of operators are introduced with the help of elementary concepts of mathematical analysis.

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encountered in classical physics while trying to explain the experimental results involving atomic spectra and other phenomena. The differential equations that arise while solving eigenvalue problems are solved rigorously, to make the text self-sufficient. The

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solutions are then physically interpreted and explained. The text offers solved examples, analogous and homework problems to help students in solving practical problems of physics requiring quantum mechanical treatment.

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*Follows three  
mothers, each  
at a  
crossroads,  
and their*



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*potential  
involvement in  
a riot at a  
school trivia  
night that  
leaves one  
parent dead in  
what appears  
to be a tragic  
accident, but  
which evidence  
shows might*

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*have been  
premeditated.  
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Physics is a  
three-volume  
collection  
that meets the  
scope and  
sequence  
requirements  
for two- and  
three-semester*

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*calculus-based  
physics  
courses.*

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*covers*

*mechanics,*

*sound,*

*oscillations,*

*and waves.*

*This textbook*

*emphasizes*

*connections*

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*between theory  
and  
application,  
making physics  
concepts  
interesting  
and accessible  
to students  
while  
maintaining  
the  
mathematical*

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*rigor inherent  
in the  
subject.*

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strong  
examples focus  
on how to  
approach a  
problem, how  
to work with  
the equations,  
and how to*

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*check and  
generalize the  
result."*—Open  
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one-sitting  
novel you  
won't forget."*

*—Chloe*

*Benjamin, New  
York Times*

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*bestselling  
author of The  
Immortalists  
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fans of Me  
Before You and  
One Day—a  
striking,  
powerful, and  
moving love  
story  
following an*



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*ambitious  
lawyer who  
experiences an  
astonishing  
vision that  
could change  
her life  
forever. Where  
do you see  
yourself in  
five years?  
Dannie Kohan*

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*lives her life  
by the  
numbers. She  
is nothing  
like her  
lifelong best  
friend—the  
wild,  
whimsical, bel  
ieves-in-fate  
Bella. Her  
meticulous*

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*planning seems  
to have paid  
off after she  
nails the most  
important job  
interview of  
her career and  
accepts her  
boyfriend's  
marriage  
proposal in  
one fell*

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*swoop, falling  
asleep  
completely  
content. But  
when she  
awakens, she's  
suddenly in a  
different  
apartment,  
with a  
different ring  
on her finger,*

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*and beside a  
very different  
man. Dannie  
spends one  
hour exactly  
five years in  
the future  
before she  
wakes again in  
her own home  
on the brink  
of*

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*midnight—but  
it is one hour  
she cannot  
shake. In Five  
Years is an  
unforgettable  
love story,  
but it is not  
the one you're  
expecting.*

*Physics for  
Class XI*

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*In Five Years*

*Big Little*

*Lies*

*APC*

*Understanding*

*ISC*

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engineering  
disciplines and  
the ones  
aspiring for  
competitive  
exams such as  
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methods for  
overcoming stability  
issues in paints, wax  
dispersions, cosmetics,**

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other industrial  
applications, this  
reference probes  
theoretical and  
practical issues  
surrounding  
microemulsion science  
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51 international  
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**equations, and  
illustrations, this book  
reviews the  
performance of, and  
prospects for,  
experimental methods  
such as X-ray  
diffraction,  
transmission electron  
microscopy (TEM),  
light scattering, small  
angle neutron  
scattering,  
viscosimetry, and**



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**nuclear magnetic  
resonance (NMR) to  
characterize various  
aspects of the  
dispersed phase of  
microemulsions.**

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world.**

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advanced volumes that  
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concise but  
comprehensive  
overview of a number  
of topics, like general  
relativity, fission and**

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**fusion, which are otherwise only available with much more detail in other textbooks. Providing a general introduction to the underlying concepts (relativity, fission and fusion, fundamental forces), it allows readers to develop an idea of what these two research fields really**

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**scientific disciplines  
such as physics and  
chemistry who want to  
learn about the subject  
and/or the related  
techniques, it is also  
useful to high school  
teachers wanting to  
refresh or update their  
knowledge and to  
interested non-experts.**

**Physics**

**P C Wren's Grammar**

**4**

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Practicals) A.

Every student will

perform 10

experiments (5

from each

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section) & 8  
activities (4 from  
each section)  
during the  
academic year.

Two  
demonstration  
experiments  
must be  
performed by the  
teacher with  
participation of



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students. The  
students will  
maintain a record  
of these  
demonstration  
experiments. B.  
Evaluation  
Scheme for  
Practical  
Examination :  
One experiment  
from any one

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section 8 Marks

Two activities

(one from each  
section) (4 + 4) 8

Marks Practical  
record

(experiments &  
activities) 6

Marks Record of  
demonstration  
experiments &

Viva based on

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these

experiments 3

Marks Viva on

experiments &

activities 5 Marks

Total 30 Marks

Section A

Experiments 1.

To determine

resistance per

cm of a given

wire by plotting a

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graph of potential difference versus current. 2. To find resistance of a given wire using metre bridge and hence determine the specific resistance of its material. 3. To verify the laws of combination

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(series/parallel)  
of resistances  
using a metre  
bridge. 4. To  
compare the emf  
of two given  
primary cells  
using  
potentiometer. 5.  
To determine the  
internal  
resistance of

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given primary cells using potentiometer. 6. To determine resistance of a galvanometer by half-deflection method and to find its figure of merit. 7. To convert the given galvanometer (of

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known resistance and figure of merit) into an ammeter and voltmeter of desired range and to verify the same. 8. To find the frequency of the a.c. mains with a sonometer.

Activities 1. To

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measure the resistance and impedance of an inductor with or without iron core.

2. To measure resistance, voltage (AC/DC), current (AC) and check continuity of a given circuit using multimeter.



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3. To assemble a household circuit comprising three bulbs, three (on/off) switches, a fuse and a power source. 4. To assemble the components of a given electrical circuit. 5. To study the

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variation in potential drop with length of a wire for a steady current. 6. To draw the diagram of a given open circuit comprising at least a battery, resistor/rheostat, key, ammeter and

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voltmeter. Mark the components that are not connected in proper order and correct the circuit and also the circuit diagram.

Section B

Experiments 1.

To find the value of  $v$  for different

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values of  $u$  in case of a concave mirror and to find the focal length. 2. To find the focal length of a convex lens by plotting graphs between  $u$  and  $v$  or between  $1/v$  and  $1/u$ . 3. To find

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the focal length of a convex mirror, using a convex lens. 4. To find the focal length of a concave lens, using a convex lens. 5. To determine angle of minimum deviation for a

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given prism by plotting a graph between angle of incidence and angle of deviation. 6. To determine refractive index of a glass slab using a travelling microscope. 7. To find refractive

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index of a liquid  
by using (i)  
concave mirror,  
(ii) convex lens  
and plane mirror.

8. To draw the I-V  
characteristic  
curve of a p-n  
junction in  
forward bias and  
reverse bias. 9.

To draw the

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characteristic  
curve of a zener  
diode and to  
determine its  
reverse break  
down voltage. 10.  
To study the  
characteristics of  
a common-  
emitter npn or  
pnp transistor  
and to find out



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the values of  
current and  
voltage gains.

Activitie 1. To  
study effect of  
intensity of light  
(by varying  
distance of the  
source) on a  
L.D.R. 2. To  
identify a diode, a  
LED, a transistor

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and IC, a resistor and a capacitor from mixed collection of such items. 3. Use of multimeter to (i) identify base of transistor. (ii) distinguish between npn and pnp type transistors. (iii)

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see the  
unidirectional  
flow of current in  
case of a diode  
and a LED. (iv)  
check whether a  
given electronic  
component (e.g.  
diode, transistor  
or I C) is in  
working order. 4.  
To observe

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refraction and lateral deviation of a beam of light incident obliquely on a glass slab.

5. To observe polarization of liquid using two Polaroids. 6. To observe diffraction of light due to a thin slit.

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7. To study the nature and size of the image formed by (i) convex lens, (ii) concave mirror, on a screen by using a candle and a screen (for different distances of the candle from the

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lens/mirror). 8. To obtain a lens combination with the specified focal length by using two lenses from the given set of lenses.

Suggested  
Investigatory  
Projects 1. To  
investigate

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whether the energy of a simple pendulum is conserved. 2. To determine the radius of gyration about the centre of mass of a metre scale as a bar pendulum. 3. To investigate changes in the

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velocity of a body under the action of a constant force and determine its acceleration. 4. To compare effectiveness of different materials as insulators of heat. 5. To



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determine the wavelengths of laser beam by diffraction. 6. To study various factors on which the internal resistance/emf of a cell depends. 7. To construct a time-switch and study

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dependence of its time constant on various factors.

8. To study infrared radiations emitted by different sources using photo-transistor. 9. To compare effectiveness of

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different materials as absorbers of sound. 10. To design an automatic traffic signal system using suitable combination of logic gates. 11. To study luminosity of

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various electric lamps of different powers and make. 12. To compare the Young's modulus of elasticity of different specimens of rubber and also draw their elastic

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hysteresis curve.

13. To study collision of two balls in two dimensions. 14.

To study frequency response of : (i) a resistor, an inductor and a capacitor, (ii) RL circuit, (iii) RC

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circuit, (iv) LCR  
series circuit.

Section I

Relativity Section

Ii Quantum

Mechanics

Section Iii Atomic

Physics Section

Iv Molecular

Physics Section

V Nuclear

Physics Section

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Vi Solid State  
Physics Section  
Vii Solid State  
Devices Section  
Viii Electronics  
Index

S Chand's ISC  
Mathematics is  
structured  
according to the  
latest syllabus as  
per the new

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Fundamentals to  
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Handbook of  
Physics

Computerized  
Control Systems  
in the Food  
Industry

Handbook of  
Microemulsion  
Science and  
Technology

***Strictly according to***

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prescribed by  
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Secondary  
Education (CBSE),  
State Board and  
Navodaya, Kendriya  
Vidyalayas etc.  
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curriculum based on  
NCERT guidelines.  
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Mathematics, for  
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written by Mr. M.L.  
Aggarwal (Former  
Head of P.G.***

***Department of  
Mathematics, D.A.V.  
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strictly according to  
the new syllabus  
prescribed by the  
Council for the  
Indian School  
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***approach is adopted throughout the book. The book is divided in five sections. First section discusses Set Theory, Relations and Functions, Probability and Counting Techniques; second section is about Recurrence***

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***Relations and Propositional Logic; third section is related to Lattices and Boolean algebra; fourth section includes study of Graph and Trees and the last section is about Algebraic Structures and Finite State Machines. Suitable examples,***

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***illustrations and exercises are included throughout the book to facilitate an easier understanding of the subject. The book would serve as a comprehensive text for students of Computer Science & Engineering, Computer Applications and***



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*drinking a box of wine alone. So when I decided to entertain my drunken self by setting up some hand-me-down podcasting equipment and reading the steamy parts from romance novels, I never thought anyone*

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*would actually listen. The fact that I admitted my huge crush on my sexy next door neighbor made the whole thing even more mortifying. But sometimes life surprises you, and that's how my podcast, Heidi's Discount Erotica,*

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*was born. Now I,  
Heidi Larsen, a  
sweet former  
kindergarten  
teacher in Waconia,  
Minnesota, lead a  
scandalous double  
life reading erotic  
novels to the  
listening world. And  
with each episode, I  
find myself  
embracing my new*

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*alter ego more and more. Now I'm starting to feel more comfortable in my own skin and do things I never would have dreamed of - like kissing my neighbor. Look out, Waconia, because Heidi's on the loose! She's in your*

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*ears, in your hearts,  
and down your  
pants...wait, that  
didn't sound as  
good as it did in my  
head. Well, you get  
the picture,  
don'tcha know!*

*This text book is  
primarily intended  
for students who  
are preparing for  
the entrance tests*

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of IIT-

*JEE/NEET/AIIMS and other esteemed colleges in same fields. This text is equally useful to the students preparing for their school exams. Our main goals in writing this text book are to present the basic concepts*



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*and principles of physics that students need to know for their competitive exams.*

*1. to provide a balance of quantitative reasoning and conceptual understanding, with special attention to concepts that have*

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*been causing difficulties to student in understanding the concepts. 2. to develop students' problem-solving skills and confidence in a systematic manner. 3. to motivate students by integrating real-*

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*world examples that build upon their everyday experiences. Main Features of the Book- 1. Every concept is up to the mark and it is given in student friendly language with various solved problems. The solution is provided*

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*with problem solving approach and discussion. 2. Checkpoint questions have been added to applicable sections of the text to allow students to pause and test their understanding of the concept explored within the*

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*current section. The answers and solutions to the Checkpoints are given in answer keys, at the end of the chapter, so that students can confirm their knowledge without jumping too quickly to the provided answer.*

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*attention is given to  
all tricky topics  
(like- centripetal  
and tangential  
acceleration,  
uniform circular  
motion vs.  
projectile motion,  
relative angular  
velocity, centripetal  
and centrifugal  
force, unbanked  
and banked curves,*

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*motion in a vertical circle, Coriolis force (optional), effect of rotation of earth on apparent weight and the physics of artificial gravity), so that student can easily solve them with fun. 4. To test the understanding level of students, multiple choice*

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*questions,  
conceptual  
questions, practice  
problems with  
previous years JEE  
Main and Advanced  
problems are  
provided at the end  
of the whole  
discussion. Number  
of dots indicates  
level of problem  
difficulty.*



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*Straightforward problems (basic level) are indicated by single dot (●), intermediate problems (JEE mains and NEET level) are indicated by double dots (●●), whereas challenging problems (advanced level)*

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*are indicated by  
thee dots (●●●).  
Answer keys with  
hints and solutions  
are provided at the  
end of the chapter.*

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