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**R K Jain  
And S R K  
Iyengar  
Solutions**

Biopolymer-Based  
Composites: Drug  
Delivery and  
Biomedical  
Applications  
presents a  
comprehensive

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review on recent developments in biopolymer-based composites and their use in drug delivery and biomedical applications. The information contained in this book is critical for the more efficient use of composites, as detailed up-to-

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date information is a pre-requirement. The information provided brings cutting-edge developments to the attention of young investigators to encourage further advances in the field of bio-composite research. Currently, biopolymers are being investigated

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for the design of various drug delivery and biomedical devices due to their non-toxic, biodegradable and biocompatible nature. Mostly, biopolymer-based solid orals, gels, hydrogel beads, and transdermal matrices have been designed in order to

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control drug/protein  
release in simulated  
bio-fluids. Presents  
the most updated  
information in the  
field of  
pharmaceutical and  
biological sciences  
Contains color  
figures and  
illustrations to help  
users understand  
key topics Useful  
guide for young

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researchers working  
towards new  
innovations

Includes chapters  
covered by eminent  
scientists in the field  
Nanotechnology-  
Based Approaches  
for Targeting and  
Delivery of Drugs  
and Genes provides  
an overview of the  
important aspects of  
nanomedicine in

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order to illustrate how to design and develop novel and effective drug delivery systems using nanotechnology.

The book is organized into three sections, beginning with an introduction to nanomedicine and its associated issues. Section two

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discusses the latest technologies in nanomedicine, while the third section covers future developments and challenges in the field. By focusing on the design, synthesis, and application of a variety of nanocarriers in drug and gene delivery,



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this book provides pharmaceutical and materials science students, professors, clinical researchers, and industry scientists with a valuable resource aimed at tackling the challenges of delivering drugs and genes in a more targeted manner.

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Explores a wide  
range of promising  
approaches for the  
diagnosis and  
treatment of  
diseases using the  
latest advances in  
cutting-edge  
nanomedical  
technologies  
Contains  
contributions from  
world-renowned  
experts and

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researchers working  
in the area of  
nanomedicine and  
drug delivery  
Covers the  
associated  
challenges and  
potential solutions  
to working with  
nanotechnology in  
drug delivery  
Highlights crucial  
topics, such as  
biopharmaceutical

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and toxicity issues,  
quality by design,  
drug targeting, and  
more

Written and edited  
by leading  
international  
authorities in the  
field, this book  
provides an in-depth  
review of knowledge  
of tuberculosis of  
the central nervous  
system, with

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emphasis on  
clinical, diagnostics,  
and therapeutic  
features.

Tuberculosis, one of  
the most lethal  
diseases in human  
history, still poses a  
serious threat in the  
world together with  
economic and social  
problems, although  
a great progress in  
the fight against this

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infectious disease in the last century. It covers the full range of tuberculosis of central nervous system and the chapters are organized into six sections: (1) the cranial; (2) the spinal; and (3) the peripheral portions of the nervous system; followed by

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(4) a section on the laboratory studies in tuberculosis; (5) a section on medical and surgical therapy; and (6) further insights into tuberculosis. This comprehensive reference book will be an ideal source for neurosurgeons, neurologists and specialists upon

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infectious diseases  
seeking both basic  
and more  
sophisticated  
information and  
surgical procedures  
relating to the  
complications  
associated with  
tuberculosis  
involving the spine,  
brain and peripheral  
nerves.

Molecular Targeted



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Radiosensitizers: Opportunities and Challenges provides the reader with a comprehensive review of key pre-clinical research components required to identify effective radiosensitizing drugs. The book features discussions on the

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mechanisms and  
markers of clinical  
radioresistance, pre-  
clinical screening of  
targeted  
radiosensitizers, 3D  
radiation biology for  
studying  
radiosensitizers, in  
vivo determinations  
of local tumor  
control, genetically  
engineered mouse  
models for studying

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radiosensitizers,  
targeting the DNA  
damage response  
for  
radiosensitization,  
targeting tumor  
metabolism to  
overcome  
radioresistance,  
radiosensitizers in  
the era of immuno-  
oncology, and more.  
Additionally, the  
book features

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discussions on high-throughput drug screening, predictive biomarkers, pre-clinical tumor models, and the influence of the tumor microenvironment and the immune system, with a specific focus on the challenges

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radiation

oncologists and  
medical oncologists  
currently face in  
testing

radiosensitizers in  
human cancers.

Edited by two  
acclaimed experts in  
radiation biology  
and

radiosensitizers,  
with thirteen  
chapters

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contributed by  
experts, this new  
volume presents an  
in-depth look at  
current  
developments within  
a rapidly moving  
field, with a look at  
where the field will  
be heading and  
providing  
comprehensive  
insight into the  
framework of

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targeted

radiosensitizer

development.

Essential reading for  
investigators in  
cancer research and  
radiation biology.

The Biology of  
Tumors

Handbook of  
Nanobiomedical  
Research

Introductory

Microeconomics -

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Class 11 - CBSE  
(2021-22)

Advances,  
Detection, and  
Antiviral Strategies  
Soft Robotics in  
Rehabilitation  
Nanotechnology-  
Based Approaches  
for Targeting and  
Delivery of Drugs  
and Genes

*A premier debate  
in the present*

*Page 24/231*



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*conjunction of  
globalization  
has been the  
prospect of  
'post nation'  
and the  
obsolescence of  
patriotism at  
the horizon of t  
ransnationalism.  
In an  
ethnographically  
rich and  
discursively*

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*sharp*

*intervention R.*

*K. Jain*

*articulates the*

*contribution*

*that diaspora*

*studies can make*

*to this debate.*

*In this*

*anthropological*

*narrative both*

*nation and trans-*

*nation are*

*'moving*

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*targets'; their  
positionality  
shifts and  
changes  
according to the  
geo-political  
location of the  
analyst and the  
frame of  
comparison  
brought to bear  
on the  
objects/subjects  
of study. In*

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*Jain's case the locus happens to be India but the discussion in this book does not foreclose perspectives from 'other' nations. Indeed as his own examples from countries of the Indian Ocean zone, the Asia*

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*Pacific region  
and the  
Caribbean amply  
demonstrate the  
methodology of  
ethno-cultural  
relativism built  
in these  
diasporic  
comparisons is  
the surest  
guarantee for  
tracing the  
juxtaposed*

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*dialectic of  
nation and trans-  
nation from  
whichever  
existential  
location one  
begins. The  
rootedness of  
this particular  
discourse in  
India provides  
coherence in the  
nature of a case-  
study of*

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*globalization  
from a prominent  
diaspora node of  
our times. At  
the same time it  
unravels  
dimensions of  
Indian social  
institutions  
viewed from the  
vantage point of  
diaspora. The  
book, therefore,  
is an invitation*

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*to further multi-disciplinary and multi-sited collaboration in the exploration of globalization, diaspora, nationalism and patriotism as well as transnationalism from diverse perspectives.*



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*Dosage Form  
Design  
Parameters,  
Volume I,  
examines the  
history and  
current state of  
the field within  
the  
pharmaceutical  
sciences,  
presenting key  
developments.  
Content includes*

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*drug development  
issues, the  
scale up of  
formulations,  
regulatory  
issues,  
intellectual  
property, solid  
state properties  
and  
polymorphism.*

*Written by  
experts in the  
field, this*

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*volume in the  
Advances in  
Pharmaceutical  
Product  
Development and  
Research series  
deepens our  
understanding of  
dosage form  
design  
parameters.  
Chapters delve  
into a  
particular*

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*aspect of this  
fundamental  
field, covering  
principles,  
methodologies  
and the  
technologies  
employed by  
pharmaceutical  
scientists. In  
addition, the  
book contains a  
comprehensive  
examination*

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*suitable for  
researchers and  
advanced  
students working  
in  
pharmaceuticals,  
cosmetics,  
biotechnology  
and related  
industries.  
Examines the  
history and  
recent  
developments in*

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*drug dosage  
forms for  
pharmaceutical  
sciences Focuses  
on  
physicochemical  
aspects,  
prefomulation  
solid state  
properties and  
polymorphism  
Contains  
extensive  
references for*

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*further  
discovery and  
learning that  
are appropriate  
for advanced  
undergraduates,  
graduate  
students and  
those interested  
in drug dosage  
design*

*This book  
consists of 4  
volumes*

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*containing about  
70 chapters  
covering all the  
major aspects of  
the growing area  
of nanomedicine.  
Leading  
scientists from  
15 countries  
cover all major  
areas of  
nanobiomedical  
research  
materials for*



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*nanomedicine,  
application of  
nanomedicine in  
therapy of  
various  
diseases, use of  
nanomedicines  
for diagnostic  
purposes,  
technology of  
nanomedicines,  
and new trends  
in  
nanobiomedical*

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*research. This  
is the first  
detailed  
handbook  
specifically  
addressing  
various aspects  
of  
nanobiomedicine.  
Readers are  
treated to  
cutting-edge  
research and the  
newest data from*

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*leading  
researchers in  
this  
area. Contents:  
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"Liposomal  
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" (Amr S Abu  
Lila, Tatsuhiro  
Ishida and  
Theresa M  
Allen) "Solid  
Lipid*

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for Biomedical  
Applications  
" (Karsten  
Mader) "Micellar  
Nanopreparations  
for Medicine  
" (Rupa Sawant  
and Aditi Jhaver  
i) "Nanoemulsions  
in Medicine  
" (William B  
Tucker and  
Sandro*

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Mecozzi) "Drug  
Nanocrystals and  
Nanosuspensions  
in Medicine  
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Peltonen, Jouni  
Hirvonen and  
Timo Laaksonen) "  
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Nanosystems for  
Integrated Image-  
Guided Cancer  
Therapy " (Amit  
Singh, Arun K

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M Amiji) "Polysac  
charide-Based  
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Csaba, Marcos  
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Kaminskas,  
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Polyelectrolyte  
Multilayer

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for Biomedical*



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S Kane) "Core-  
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*Structure  
Activity*

*Relationships  
for Tumor-*

*Targeting Gold*

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*" (Erik C*

*Dreaden, Ivan H*

*El-Sayed and*

*Mostafa A El-*

*Sayed) "Silver*

*Nanoparticles as*

*Novel*

*Antibacterial*

*and Antiviral*

*Agents*

*" (Stefania*

*Galdiero,*

*Annarita*

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Cantisani,  
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Mahendra  
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Harald  
Unterweger and  
Christoph*

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Alexiou) "Quantum  
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Petryayeva, Roza  
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Russ Algar) ""App  
lications in

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Application of  
Nanomedicine to  
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M Bardon,  
Olivier Kister  
and Jason R McCa  
rthy) "Nanomedici  
nes for  
Restenosis  
Therapy " (J E  
Tengood, I  
Fishbein, R J*

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Levy and M Chorn  
y) "Nanopreparati  
ons for Cancer  
Treatment and  
Diagnostics

" (Jayant  
Khandare,  
Shashwat

Banerjee and  
Tamara Minko) "Na  
noparticles in  
the

Gastrointestinal  
Tract " (Abraham

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preparations for  
Oral*

*Administration*

*" (D Hubbard, D J*

*Brayden and H Gh*

*andehari) "Nanopr*

*eparations for*

*Central Nervous*

*System Diseases*

*" (Leyuan Xu and*

*Hu Yang) "Nanopar*

*ticles for*

*Dermal and*



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Delivery:  
Permeation  
Pathways and  
Applications  
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Foldvari, Marjan  
Gharagozloo and  
Christine  
Li) "Lysosomes  
and Nanotherapeu  
tics: Diseases,  
Treatments, and  
Side Effects*

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"(Rachel L  
Manthe and  
Silvia Muro) "Nan  
ostructured  
Biomaterials for  
Inhibiting  
Cancer Cell  
Functions

"(Lijuan Zhang  
and Thomas J Web  
ster) "Nanomedici  
ne in Otorhinola  
ryngology"

This book

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*introduces  
readers to  
various tools  
and techniques  
for the design  
of precision,  
miniature  
products,  
assemblies and  
associated  
manufacturing  
processes. In  
particular, it  
focuses on*

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*precision  
mechanisms,  
robotic devices  
and their  
control  
strategies,  
together with  
case studies. In  
the context of  
manufacturing  
process, the  
book highlights  
micro/nano machi  
ning/forming*

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*processes using  
non-conventional  
energy sources  
such as lasers,  
EDM (electro-  
discharge  
machining), ECM  
(electrochemical  
machining), etc.  
Techniques for  
achieving  
optimum  
performance in  
process*

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*modeling,  
simulation and  
optimization are  
presented. The  
applications of  
various research  
tools such as  
FEM (finite  
element method),  
neural networks,  
genetic  
algorithms, etc.  
to product-  
process design*

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*and optimization  
are illustrated  
through case  
studies. The  
state-of-the-art  
material  
presented here  
provides  
valuable  
directions for  
product  
development and  
future research  
work in this*

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area. The  
contents of this  
book will be of  
use to  
researchers and  
industry  
professionals  
alike.

Electrical  
Safety, Fire  
Safety  
Engineering &  
Safety  
Management



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*Molecular*

*Targeted*

*Radiosensitizers*

*R.K. Jain's*

*Customs Law*

*Manual [Finance*

*Act 2022] -*

*Covering Acts,*

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*Notifications,*

*Commentary on*

*Customs Law &*

*Procedures,*

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Genetics*

*Precision*

*Product-Process*

*Design and*

*Optimization*

*Tuberculosis of  
the Central*

*Nervous System*

***The Future of***

*Page 66/231*

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***Pharmaceutical  
Product  
Development  
and Research  
examines the  
latest  
developments in  
the  
pharmaceutical  
sciences, also  
highlighting key  
developments,  
research and  
future***

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**opportunities.  
Written by  
experts in the  
field, this volume  
in the Advances  
in  
Pharmaceutical  
Product  
Development  
and Research  
series deepens  
our  
understanding of  
the product**

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***development  
phase of drug  
discovery and  
drug  
development.  
Each chapter  
covers  
fundamental  
principles,  
advanced  
methodologies  
and technologies  
employed by  
pharmaceutical***

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**scientists,  
researchers and  
the  
pharmaceutical  
industry. The  
book focuses on  
excipients, radio  
pharmaceuticals,  
and how  
manufacturing  
should be  
conducted in an  
environment that  
follows Good**

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***Manufacturing  
Practice (GMP)  
guidelines.***

***Researchers and  
students will find  
this book to be a  
comprehensive  
resource for  
those working in,  
and studying,  
pharmaceuticals,  
cosmetics,  
biotechnology,  
foods and***

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***related***

***industries.***

***Provides an***

***overview of***

***practical***

***information for***

***clinical trials***

***Outlines how to***

***ensure an***

***environment that***

***follows Good***

***Manufacturing***

***Practice (GMP)***

***Examines recent***



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**developments  
and suggests  
future directions  
for drug  
production  
methods and  
techniques  
There is a  
natural longing  
in human beings  
for happiness. It  
is therefore  
important to  
understand what**

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***happiness is.  
Happiness is  
more likely to be  
ours if we know  
the reasons for  
unhappiness and  
avoid them. In  
today's  
materialistic  
world everybody  
feels the pinch of  
stress is  
beneficial, it  
need s to be***

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***managed for  
optimum results  
and happy living.  
This book also  
provides several  
tips for  
successful living.  
It is hoped that  
these will greatly  
help the readers  
in changing their  
daily lifestyle to  
lead a happy and  
peaceful life.***

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***This book provides the complete, amended, updated & annotated text of the Customs and Allied Laws. This book has been divided into nine parts: • Part 1 - Customs Act, 1962 • Part 2 - Customs Rules***

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**and Regulations**

- **Part 3 - Appeal, Revision and Appellate Tribunal's Rules, Notifications and Orders**
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**Customs Forms &  
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Allied Acts, Rules  
and Regulations  
• Part 7 - CBIC's  
Customs Manual  
of Instructions  
with Latest Instr  
uctions/Circulars  
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Economic Zones  
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***Notifications  
issued under  
Customs Act,  
1962 by the  
Finance Ministry  
and Customs  
Commissionerate  
The Present  
Publication is the  
67th Edition for  
2022-23,  
authored by R.K.  
Jain. This book is  
amended by the***

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***Finance Act 2022  
& updated till 1st  
June 2022. The  
coverage of this  
book is as  
follows: •***

***Contains revised  
and up-to-date  
text of Customs  
Act, 1962 •  
Rules,  
Regulations,  
Orders issued  
under the***



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***Customs Act,  
1962 • Allied  
Acts, Rules, and  
Regulations •  
CESTAT Rules,  
Notifications &  
Circulars •  
Notifications  
issued under the  
Customs Act,  
1962 • All Forms  
and Bonds •  
CBIC's Customs  
Manual of***

*Page 81/231*

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***Instructions with  
the latest Instruc  
tions/Circulars •  
SEZ Act, Rules  
and relevant  
Notifications &  
Instructions •  
Chronological  
List of  
Notifications  
issued under  
Customs Act,  
1962 by the  
Government***

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***Annual Reports  
in Medicinal  
Chemistry  
provides timely  
and critical  
reviews of  
important topics  
in medicinal  
chemistry  
together with an  
emphasis on  
emerging topics  
in the biological  
sciences, which***

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***are expected to  
provide the basis  
for entirely new  
future therapies.***

***\* Covers findings  
related to  
cardiovascular,  
inflammation,  
and pulmonary  
diseases \****

***Examines issues  
in oncology, from  
mTor inhibitors  
to drug targets \****

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***Incorporates up-to-date information on drug design and discovery, including delivery to market***

***The Future of Pharmaceutical Product***

***Development and Research***

***The Art of Happy***

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**Living**

***Nation, Diaspora,  
Trans-nation  
Herbs, Botanicals  
and Teas  
Resource,  
Quality and  
Pharmacognosy  
Drug Delivery  
Systems  
examines the  
current state of***

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*the field within  
pharmaceutical  
science and  
concisely explains  
the history of  
drug delivery  
systems,  
including key  
developments.  
The book  
translates the  
physicochemical  
properties of*

*drugs into drug  
delivery systems  
administered via  
various routes,  
such as oral,  
parenteral,  
transdermal and  
inhalational.  
Regulatory and  
product  
development  
topics are also  
explored. Written*



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*by experts in the  
field, this volume  
in the Advances  
in Pharmaceutical  
Product*

*Development and  
Research series  
deepens our  
understanding of  
drug delivery  
systems within  
the  
pharmaceutical*

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*sciences industry  
and research, as  
well as in  
chemical  
engineering. Each  
chapter delves  
into a particular  
aspect of this  
fundamental field  
to cover the  
principles,  
methodologies  
and technologies*

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*employed by  
pharmaceutical  
scientists. This  
book provides a  
comprehensive  
examination that  
is suitable for  
researchers and  
advanced  
students working  
in  
pharmaceuticals,  
cosmetics,*

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*biotechnologies,  
and related  
industries.*

*Provides up-to-  
date information  
on how to  
translate the  
physicochemical  
properties of  
drugs into drug  
delivery systems  
Explores how  
drugs are*

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*administered via  
various routes,  
such as oral,  
parenteral,  
transdermal and  
inhalational*

*Contains  
extensive  
references and  
further reading  
for course and  
self-study*

*Importance of*

*herbs (medicinal plants) can hardly be overemphasized. They are exploited for manifold applications, ranging from phyt opharmaceuticals , to nutraceuticals, to cosmetics and*

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Iyengar Solutions

*many others.*

*Keeping in view  
the richness of  
herbs and their  
vast potential,  
this book collates  
the most up-to-  
date knowledge  
of important  
herbs and  
herbals. The book  
also gives an  
overview of some*

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*issues causing  
hindrance in the  
promotion of  
herbals. This book  
attempts to  
compile the rich  
experience of  
experts working  
on various herbs.  
New age single  
plant species,  
having multiple  
medicinal traits*



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*worth exploiting  
i.e. Hippophae  
rhamnoides  
(seabuckthorn),  
and Morinda  
citrifolia (noni)  
also find place as  
full chapters in  
the book.*

*Applied Plant  
Virology:  
Advances,  
Detection, and*

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*Antiviral  
Strategies  
provides an  
overview on  
recent  
developments  
and applications  
in the field of  
plant virology.  
The book begins  
with an  
introduction to  
important*

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*advances in plant virology, but then covers topics including techniques for assay detection and the diagnosis of plant viruses, the purification, isolation and characterization of plant viruses, the architecture*

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*of plant viruses,  
the replication of  
plant viruses, the  
physiology of  
virus-infected  
hosts, vectors of  
plant viruses, and  
the nomenclature  
and classification  
of plants. The  
book also  
discusses defense  
strategies by*

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*utilizing antiviral  
agents and  
management  
strategies of virus  
and viroid  
diseases. With  
contributions  
from an  
international  
collection of  
experts, this book  
presents a  
practical resource*

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*for plant  
virologists, plant  
pathologists,  
horticulturalists,  
agronomists,  
biotechnologists,  
academics and  
researchers  
interested in up-  
to-date  
technologies and  
information that  
advance the field*

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*of plant virology.  
Covers the  
detection, control  
and management  
of plant viruses  
Discusses  
antiviral  
strategies, along  
with mechanisms  
of systemic  
induced  
resistance to  
enhance the*

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*defense of plants  
against viruses  
Provides  
contributory  
chapters from  
expert plant  
virologists from  
different parts of  
the world*

*This work is  
based on the  
experience and  
notes of the*



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*authors while  
teaching  
mathematics  
courses to  
engineering  
students at the  
Indian Institute of  
Technology, New  
Delhi. It covers  
syllabi of two core  
courses in  
mathematics for  
engineering*

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*students.*

*Primary Social  
Studies*

*Applied Plant  
Virology*

*New Age Herbals  
Dendrimers*

*Reflections from  
India*

*A Perspective on  
Current*

*Applications and  
Future Challenges*

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*This volume  
contains the  
lectures held at  
the International  
Symposium on  
Cancer "New  
Trends in Cancer  
for the 21st  
Century".*

*Fundamental  
researchers,  
politicians and*

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*representatives  
from patient  
coalitions share  
their knowledge  
and interests as  
well as their  
concerns and  
experiences. Not  
only do these  
papers provide  
state-of-the-art  
information on*

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*cancer, they are also an opportunity to look at the problem from different points of view.*

*This book focuses on electro active polymer material known as Ionic Polymer Metal*

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*Composite (IPMC)  
having unique  
applicability as  
sensor and  
actuator which  
finds extensive  
use in various  
domain of  
engineering and  
science research.  
Apart from  
fundamentals of*

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*the IPMC concept,  
various  
applications are  
covered  
extensively across  
the chapters  
including space,  
underwater and  
nanoscale,  
including  
manufacturing  
processes.*

*Dedicated chapters are included for robotics and biomedical applications and possible research gaps. Future research perspectives for IPMC are also discussed.*



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*Features: Covers  
principle of Ionic  
Polymer Metal  
Composite  
(IPMC),  
manufacturing  
processes,  
applications, and  
future  
possibilities in a  
systematic  
manner*

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*Highlights IPMC  
practical  
applicability in  
biomedical  
engineering  
domain Explores  
Single-walled  
carbon nanotubes  
(SWNT) based  
IPMC soft  
actuators  
Discusses IPMC*

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*applications in  
underwater areas  
Includes IPMC  
application in  
robotics focusing  
on special  
compliant  
mechanism This  
book is aimed  
toward  
researchers,  
graduate students*

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*and professionals  
in materials and  
mechanical  
engineering,  
robotics,  
mechatronics,  
biomedical  
engineering, and  
physics.*

*This is the only  
handbook  
available on X-ray*

*data. In a concise and informative manner, the most important data connected with the emission of characteristic X-ray lines are tabulated for all elements up to  $Z = 95$  (Americium). The tabulated*

*data are  
characterized  
and, in most  
cases, evaluated.  
Furthermore, all  
important  
processes and  
phenomena  
connected with  
the production,  
emission and  
detection of*

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*characteristic X-rays are discussed.*

*Biomaterials and Bionanotechnology examines the current state of the field within pharmaceutical sciences and concisely explains the history of*

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*biomaterials  
including key  
developments.  
Written by  
experts in the  
field, this volume  
within the  
Advances in  
Pharmaceutical  
Product  
Development and  
Research series*



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*deepens*

*understanding of  
biomaterials and  
bionanotechnology  
within drug  
discovery and  
drug  
development.*

*Each chapter  
delves into a  
particular aspect  
of this fast-moving*

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*field to cover the  
fundamental  
principles,  
advanced  
methodologies  
and technologies  
employed by  
pharmaceutical  
scientists,  
researchers and  
pharmaceutical  
industries to*

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*transform a drug  
candidate or new  
chemical entity  
into a final  
administrable  
dosage form, with  
particular focus  
on biomaterials  
and  
bionanomaterials.  
This book  
provides a*

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*comprehensive  
examination  
suitable for  
researchers  
working in the  
pharmaceutical,  
cosmetics,  
biotechnology,  
food and related  
industries as well  
as advanced  
students in these*

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*fields. Examines  
the most recent  
developments in  
biomaterials and  
nanomaterials for  
pharmaceutical  
sciences Covers  
important topics,  
such as the  
fundamentals of  
polymers science,  
transportation*

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*and bio*

*interaction of  
properties in  
nanomaterials  
across biological  
systems, and  
nanotechnology in  
tissue engineering  
as they pertain  
specifically to  
pharmaceutical  
sciences Contains*

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*extensive*

*references for  
further discovery  
on the role of  
biomaterials and  
nanomaterials in  
the drug  
discovery process*

*Handbook of X-  
Ray Data*

*Aromatic Rices  
Objective*

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*Mechanical  
Engineering  
Cumulated Index  
Medicus  
Plant Cell and  
Tissue Culture  
Dosage Form  
Design  
Considerations*

Each chapter of  
this volume is a  
contribution from



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an expert in the  
field, chosen by the  
editors to  
contribute to the  
1997 "Current  
Issues in Blood  
Substitute  
Research and  
Development"  
course given in San  
Diego, March  
17-19. The  
contributors were

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selected because of their expertise in areas which the editors believe to be critical to the advancement of the field, and which reflect activity in "hot" areas of relevant research. While there is a continuity in style for the annual

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course, each year brings changes in emphasis and content. In previous years, we were often not able to provide time for participants to present their views and opinions. Consequently, this year we encouraged

discussion after  
each presentation.  
These sessions  
were recorded,  
transcribed, and  
are printed with  
the chapters  
herein. We believe  
that the product is  
very close to the  
capturing this  
year's course in  
print, and trust

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readers will enjoy reading the always candid and often provocative remarks from the audience. The price paid for inclusion of the discussion transcriptions was a delay in publication. Each author was allowed to edit his/her

discussion section as well as the final version of the chapters prior to publication. The changes are mainly for grammar, and we tried, when possible, not to alter the conversational style of these interchanges.

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About the Book:

This comprehensive textbook covers material for one semester course on Numerical Methods (MA 1251) for B.E./ B. Tech. students of Anna University.

The emphasis in the book is on the presentation of fundamentals and

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theoretical  
concepts in an  
intelligible and  
easy to understand  
manner. The book  
is written as a  
textbook rather  
than as a  
problem/guide  
book. The textbook  
offers a logical  
presentation of  
both the theory and



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techniques for  
problem solving to  
motivate the  
students in the  
study and  
application of  
Numerical  
Methods. Examples  
and Problems in  
Exercises are used  
to explain.

The present book is  
based on the work

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of M.N.Bochkarev,  
G.S.Kalinina, L.N.  
zakharov and  
S.Ya.Khorshev. The  
Russian edition of  
that book appeared  
under the same  
title in 1989 and  
covered literature  
data up to the  
middle of 1986.  
Since that time the  
number of

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publications on this subject increased significantly. In this volume we include all the data published up to the end of 1990, as well as some of the most important relevant articles of 1991. Therefore, this book should be considered as a

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new book, devoted to the same problems, rather than as just a translation of the mentioned issue. This book deals with compounds of scandium, yttrium, lanthanum and lanthanoids containing direct metal-carbon bond,

Le. with the real organometallic complexes of these metals. Besides, the volume includes the rare earth complexes, in which organic ligand is bonded to the metal atom via the atom of another element of the Periodic Table. In

other words, the book includes all classes of rare earth organoderivatives. Carboxilates, fl-diketonates and related chelates are the exceptions, because their properties are closer to inorganic compounds and

they were fully described elsewhere. It should be noted, that "rare earth elements", "rare earth metals", "lanthanoids" and related terms are used in this book for indicating scandium, yttrium, lanthanum and the

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following 14  
elements of the  
Periodic Table.  
Herbs, Botanicals  
and Teas presents  
the latest scientific  
and technical  
information on the  
chemical,  
pharmacological,  
epidemiological  
and clinical aspects  
of major herbal and



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tea products.

Written by leading  
researchers  
contributing to the  
field, this is the  
first reference to  
provide in-depth  
coverage of garlic,  
ginseng,  
Echinacea, ginger,  
fenugre  
Advances in Blood  
Substitutes

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Evolution,  
Application and  
Future Directions  
Advances in  
Carbohydrate  
Chemistry and  
Biochemistry  
Joyful Living  
Ionic Polymer-  
Metal Composites  
Advances In Plant  
Physiology (Vol. 3)  
**Plant Cell and**

*Page 146/231*

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**Tissue Culture  
gives an  
exhaustive  
account of plant  
cell culture and  
genetic  
transformation,  
including detailed  
chapters on all  
major field and  
plantation crops.  
Part A presents a  
comprehensive**

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**coverage of all  
necessary  
laboratory  
techniques for  
the initiation,  
nutrition,  
maintenance and  
storage of plant  
cell and tissue  
cultures,  
including  
discussions on  
these topics, as**

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**well as on  
morphogenesis  
and regeneration,  
meristem and  
shoot tip culture,  
plant protoplasts,  
mutant cell lines,  
variation in  
tissue cultures,  
isogenic lines,  
fertilization  
control,  
cryopreservation,**

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**transformation,  
and the  
production of  
secondary  
metabolites. Part  
B then proceeds  
into detail on the  
specific in vitro  
culture of specific  
crops, including  
cereals, legumes,  
vegetables,  
potatoes, other**

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**roots and tubers,  
oilseeds,  
temperate fruits,  
tropical fruits,  
plantation crops,  
forest trees and  
ornamentals.**

**Plant Cell and  
Tissue Culture is,  
and is likely to  
remain, the  
laboratory  
manual of choice,**

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**as well as a  
source of  
inspiration and a  
guide to all  
workers in the  
field.**

**Researches have  
made  
tremendous  
progress in the  
area of Plant  
Physiology,  
greatly**



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**increasing our  
understanding of  
living processes,  
necessary for  
biotechnological  
research.**

**Different volumes  
of the treatise  
``Advances in  
Plant Physiology''  
covers the entire  
spectrum of Plant  
Physiology**

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**including the  
Plant Molecular  
Biology in order  
to encourage  
meaningful  
research in the  
coming twenty-  
first century. The  
true endeavor in  
this direction is  
the result of  
comprehensive,  
authoritative and**

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**timely  
publication of  
this valuable  
treatise, provides  
the reader with  
the most recent  
information,  
views and  
references  
focused on  
individual topics  
through a rich  
collection of**

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**reviews**

**contributed by  
pioneer workers  
and of those  
actively engaged  
in the studies of  
various specific  
areas in different  
parts of the world  
with extensive  
experience,  
established  
record of**

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**eminence and  
noted  
authorities. In  
fact, this treatise  
is a treasure for  
interdisciplinary  
exchange of  
information and  
the approach to  
topic ranges from  
theoretical to  
applied molecular  
to organismic and**

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**single to  
multivariable  
systems. Apart  
from fulfilling the  
need of this  
treatise for  
research teams  
and scientists  
actively working  
in the areas of  
plant physiology  
biochemistry and  
plant molecular**

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**biology in  
universities  
institutes and  
research  
laboratories  
throughout the  
world, it would  
be extremely a  
useful book and a  
voluminous  
reference  
material for  
acquiring**

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**advanced  
knowledge by  
students in  
response to  
innovative  
courses in Plant  
Physiology, Plant  
Biochemistry,  
Agronomy,  
Genetics and  
Plant Breeding,  
Genetic  
Engineering,**



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**Microbiology,  
Plant  
Biotechnology  
and Botany. Over  
eighteen (18)  
chapters of Vol. 1  
extensively  
elucidate the  
needful topics of  
Biological  
Nitrogen  
Fixation, Plant  
Cell and Tissue**

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**Culture, Plant  
Metabolism ,  
certain rare  
Techniques in  
Plant Physiology,  
Herbicides  
Physiology, Plant  
Growth  
Regulators,  
Physiology of  
Rooting, Tree  
Physiology,  
Stress Physiology**

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**(in part) and  
Growth and  
Development  
Hopefully, Vol. II  
will comprise  
other important  
topics.**

**R.K. Jain's  
Customs Law  
Manual [Finance  
Act 2022] -  
Covering Acts,  
Rules,**

*Page 163/231*

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**Regulations,  
Notifications,  
Commentary on  
Customs Law &  
Procedures,  
Forms, Allied  
Laws, Circulars,  
etc. | Set of 2  
VolsTaxmann  
Publications  
Private Limited  
Soft Robotics in  
Rehabilitation**

*Page 164/231*

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**explores the  
specific branch of  
robotics dealing  
with developing  
robots from  
compliant and  
flexible  
materials. Unlike  
robots built from  
rigid materials,  
soft robots  
behave the way  
in which living**

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**organs move and  
adapt to their  
surroundings and  
allow for  
increased  
flexibility and  
adaptability for  
the user. This  
book is a  
comprehensive  
reference  
discussing the  
application of**

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**soft robotics for  
rehabilitation of  
upper and lower  
extremities  
separated by  
various limbs.  
The book  
examines various  
techniques  
applied in soft  
robotics,  
including the  
development of**

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**soft actuators,  
rigid actuators  
with soft  
behavior,  
intrinsically soft  
actuators, and  
soft sensors. This  
book is perfect  
for graduate  
students,  
researchers, and  
professional  
engineers in**



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**robotics, control,  
mechanical, and  
electrical  
engineering who  
are interested in  
soft robotics,  
artificial  
intelligence,  
rehabilitation  
therapy, and  
medical and  
rehabilitation  
device design**

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**and**

**manufacturing.  
Outlines the  
application of  
soft robotic  
techniques to  
design platforms  
that provide  
rehabilitation  
therapy for  
disabled persons  
to help improve  
their motor**

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**functions**

**Discusses the  
application of  
soft robotics for  
rehabilitation of  
upper and lower  
extremities  
separated by  
various limbs  
Offers readers  
the ability to find  
soft robotics  
devices,**

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**methods, and  
results for any  
limb, and then  
compare the  
results with other  
options provided  
in the book  
Drug Delivery  
and Biomedical  
Applications  
Fundamentals,  
Applications, and  
Recent**

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**Developments  
Biomaterials and  
Bionanotechnology  
Advanced  
Engineering  
Mathematics  
New Trends in  
Cancer for the  
21st Century  
Genomic  
Designing of  
Climate-Smart**

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**Cereal Crops  
*The Ninth  
Annual  
Pezcoller  
Symposium  
entitled "The  
Biology of  
Tumors" was  
held in  
Rovereto,  
Italy, June 4-7,  
1997. It***

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***focused on the  
genetic  
mechanisms  
underlying het  
erogeneity of  
tumor cell  
populations  
and tumor cell  
differentiation  
, on  
interactions be  
tween tumor***

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Iyengar Solutions

***cells and cells  
of host  
defenses, and  
the  
mechanisms of  
angiogenesis.  
With  
presentations  
at the cutting  
edge of  
progress and  
stimulating***



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Iyengar Solutions

***discussions,  
this  
symposium  
addressed  
issues related  
to phenomena  
concerned  
with cell  
regulation and  
cell  
interactions as  
determined by***

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***activated  
genes through  
the  
appropriate  
and timely  
media tion of  
gene products.  
Important  
methodologies  
that would  
allow  
scientists to***

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***measure differentially genes and gene products and thus validate many of the mechanisms of control currently proposed were considered, as***

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***were the  
molecular  
basis of tumor  
recognition by  
the immune  
system,  
interactions  
between cells  
and molecular  
mechanisms of  
cell regula  
tion as they***

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***are affected by  
or  
implemented  
through these  
interactions.  
The molecular  
and cellular  
mechanisms of  
tumor  
vascularization  
were also  
discussed. It***

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**was**

***recognized***

***that***

***angiogenesis***

***provides a***

***potential site***

***of therapeutic***

***intervention***

***and this makes***

***it even more***

***important to***

***understand***

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***the  
mechanisms  
underlying it.  
We wish to  
thank the  
participants in  
the symposium  
for their  
substantial  
contributions  
and their  
participation***

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Iyengar Solutions

***in the spirited  
discussions  
that followed.  
We would also  
like to thank  
Drs.***

***The book has  
been designed  
topic and  
subtopic-wise,  
keeping the  
students'***



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***needs in mind.  
The current  
edition has  
certain unique  
features: Each  
chapter starts  
with a To Do  
list. It gives  
the central  
idea of the  
chapter and  
the way it has***

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***been***

***addressed.***

***Each chapter  
is divided into  
several***

***sections***

***corresponding  
to different***

***components of  
the syllabus.***

***Each chapter  
is splashed***

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**with HOTS.**

***This is to  
promote  
clarity of the  
basics. Focus  
Zones in each  
chapter  
present a crux  
of the  
concepts.  
Blocks in each  
chapter***

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***include matter  
of special  
significance.  
Power Points  
and Revision  
Window offer a  
quick glance  
of the subject  
matter.***

***'Exercise' is  
tuned to the  
pattern of***

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***examination.***

***Answers to  
important  
questions  
focus on the  
technique of  
writing. The  
exercise  
includes:  
objective type  
questions  
(remembering***

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&

***understanding  
based***

***questions),***

***divided into***

***five sections:***

***(a) multiple  
choice***

***questions, (b)***

***fill in the***

***blanks, (c)***

***true or false,***

***(d) matching  
the correct  
statements, (e)  
'very short  
answer'  
objective type  
questions  
reason-based  
questions  
HOTS &  
applications  
analysis &***

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***evaluation***

***CBSE***

***questions***

***(with answers  
or reference to  
the text for  
answers)***

***NCERT***

***questions***

***(with hints to  
answers)***

***miscellaneous***



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***and add-on  
questions  
(with hints or  
reference to  
the text for  
answers) Dos  
and Don'ts (at  
the end of  
each chapter)  
should serve  
as a safeguard  
against misint***

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***erpretation of  
the concepts.  
Ability Zone is  
a uniquely  
designed  
section at the  
end of the  
chapter. This  
raises the  
difficulty level,  
of course, but  
should serve***

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***as a useful  
material for  
the  
outstanding  
learners.  
Solved &  
Unsolved  
numericals are  
given to boost  
a grip on the  
subject.  
Genetics and***

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***breeding of  
agronomic  
traits. Genetic  
diversity,  
evolution, and  
alien  
introgression.  
Molecular  
markers, QTL  
mapping, and  
marker-  
assisted***

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***selection.***

***Genomics.***

***Gene isolation  
and function.***

***Tissue culture  
and transform  
ation. Genetics  
of rice***

***pathogens.***

***Applications of  
Nanotechnolo  
gy in Cancer***

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***Chemotherapy  
offers a  
complete and  
concise  
summary of na  
notechnologic  
al  
interventions  
for cancer  
management.  
It highlights  
the basics of***

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***oncology, the  
cancer microe  
nvironment,  
targets for  
active drug  
delivery, the  
underlying  
mechanisms  
and molecular  
pathways to  
enhance the  
drug delivery***

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***to the cancer site. The book discusses the principles of basic and innovative nanocarrier-based therapeutic approaches to modulate the progression of the disease. In***



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***addition, this book also explores the evolving targeting approaches specific to the cancer site and type. The scope of the book is not limited to***

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***targeted drug  
delivery for  
various  
cancers, but  
also explores  
the  
advancements  
in cancer  
imaging and  
diagnostics  
employing the  
nanotechnolog***

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Iyengar Solutions  
**ical tools.**

***Emphasis has  
been given on  
the important  
evaluation  
techniques  
like in-vitro  
cell culture  
and in-vivo  
animal models  
to assess the  
performance***

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***of cancer nano  
medicines. The  
book includes  
clinical study  
reports of  
various drug  
moieties  
explored using  
variety of  
nanoconstruct  
s in myriad  
cancer***

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Jain And S R K  
Iyengar Solutions

***conditions  
with the input  
of global  
market and ph  
armacoecono  
mics.***

***Discusses how  
organic and  
inorganic  
nanoplatfoms  
are being used  
in cancer***

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***treatment  
Shows how nanotechnology  
is being used  
to create new  
and more  
accurate  
diagnostic  
tools Surveys  
the current  
generation of  
cancer nanom***

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***edicines,  
assessing their  
advantages  
and challenges  
Fundamentals  
and  
Applications***

...

***Select Papers  
from AIMTDR  
2016  
Industrial***

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***Opportunities  
and Medical  
Challenges  
Annual  
Reports in  
Medicinal  
Chemistry  
Computational  
Intelligence in  
Electromyogra  
phy Analysis  
Since its***

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*inception in  
1945, this  
serial has  
provided  
critical and  
integrating  
articles  
written by  
research  
specialists in  
industrial,  
analytical,*

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and

*technological  
aspects of  
biochemistry,  
organic  
chemistry, and  
instrumentatio  
n methodology  
in the study  
of  
carbohydrates.  
The articles*

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*provide a  
definitive  
interpretation  
of the current  
status and  
future trends  
in  
carbohydrate  
chemistry and  
biochemistry.  
Electromyograp  
hy (EMG) is a*

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*technique for  
evaluating and  
recording the  
electrical  
activity  
produced by  
skeletal  
muscles. EMG  
may be used  
clinically for  
the diagnosis  
of*

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*neuromuscular  
problems and  
for assessing  
biomechanical  
and motor  
control  
deficits and  
other  
functional  
disorders.  
Furthermore,  
it can be used*

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*as a control  
signal for  
interfacing  
with orthotic  
and/or  
prosthetic  
devices or  
other  
rehabilitation  
assists. This  
book presents  
an updated*

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*overview of  
signal  
processing  
applications  
and recent  
developments  
in EMG from a  
number of  
diverse  
aspects and  
various  
applications*

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*in clinical  
and  
experimental  
research. It  
will provide  
readers with a  
detailed  
introduction  
to EMG signal  
processing  
techniques and  
applications,*



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**while**

***presenting  
several new  
results and  
explanation of  
existing  
algorithms.  
This book is  
organized into  
18 chapters,  
covering the  
current***

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*theoretical  
and practical  
approaches of  
EMG research.*

*Dendrimers are  
defined as  
nanoscale  
macromolecules  
having a  
particular  
architecture  
consisting of*

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*treelike arms  
or branches.  
They are  
characterized  
by special  
properties  
that make them  
promising  
candidates in  
medicine,  
biology,  
materials*

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*science,  
synthetic  
organic  
chemistry,  
biotechnology,  
environmental  
engineering,  
optics,  
electronics,  
catalysis, ele  
ctrochemistry,  
photochemistry*

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*, and sensors  
and even for  
production of  
cosmetics and  
personal care  
products. The  
dendrimers  
research field  
is growing day  
by day, and  
scientists are  
exploring new*

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*synthesis and  
functionalizat  
ion methods in  
order to  
improve and to  
determine new  
properties and  
thus new  
applications.  
The main  
purpose of  
this book is*

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*to highlight  
the issues  
regarding  
properties and  
applications  
of dendrimers  
in the field  
of biology,  
medicine,  
liquid crystal  
devices,  
electronics,*

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*quantum*

*devices, and  
self-healing  
technology.*

*This book  
highlights  
modern methods  
and strategies  
to improve  
cereal crops  
in the era of  
climate*



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*change,*

*presenting the  
latest*

*advances in*

*plant*

*molecular*

*mapping and*

*genome*

*sequencing.*

*Spectacular*

*achievements*

*in the fields*

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*of molecular  
breeding,  
transgenics  
and genomics  
in the last  
three decades  
have  
facilitated  
revolutionary  
changes in  
cereal- crop-  
improvement*

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Iyengar Solutions,  
*strategies and  
techniques.*  
*Since the  
genome  
sequencing of  
rice in 2002,  
the genomes of  
over eight  
cereal crops  
have been  
sequenced and  
more are to*

*follow. This  
has made it  
possible to  
decipher the  
exact  
nucleotide  
sequence and  
chromosomal  
positions of  
agroeconomic  
genes. Most  
importantly,*

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Iyengar Solutions

*comparative  
genomics and g  
enotyping-by-  
sequencing  
have opened up  
new vistas for  
exploring  
available  
biodiversity,  
particularly  
of wild crop  
relatives, for*

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Iyengar. Solutions

*identifying  
useful donor  
genes.*

*Opportunities  
and Challenges  
Biopolymer-  
Based*

*Composites  
Organoderivati  
ves of Rare  
Earth Elements  
Numerical*

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*Methods (As  
Per Anna  
University)  
Drug Delivery  
Systems  
Nanotechnology  
Applications  
for Cancer  
Chemotherapy*