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*Niosomal Carriers
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**This contribution book
collects reviews and**

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original articles from
eminent experts working
in the interdisciplinary
arena of novel drug
delivery systems and
their uses. From their
direct and recent

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experience, the readers can achieve a wide vision on the new and ongoing potentialities of different drug delivery systems. Since the advent of analytical

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techniques and

capabilities to measure
particle sizes in
nanometer ranges, there
has been tremendous
interest in the use of
nanoparticles for more

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efficient methods of drug delivery. On the other hand, this reference discusses advances in the design, optimization, and adaptation of gene

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delivery systems for the
treatment of cancer,
cardiovascular,
pulmonary, genetic, and
infectious diseases, and
considers assessment and
review procedures

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involved in the
development of gene-
based pharmaceuticals.
Nanotechnology for Oral
Drug Delivery: From
Concept to Applications
discusses the current

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challenges of oral drug delivery, broadly revising the different physicochemical barriers faced by nanotechnology-based oral drug delivery systems, and

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highlighting the challenges of improving intestinal permeability and drug absorption. Oral delivery is the most widely used form of drug administration due

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to ease of ingestion,
cost effectiveness, and
versatility, by allowing
for the accommodation of
different types of
drugs, having the
highest patient

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compliance. In this book, a comprehensive overview of the most promising and up-to-date engineered and surface functionalized drug carrier systems, as well

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as opportunities for the development of novel and robust delivery platforms for oral drug administration are discussed. The relevance of controlling the

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**physicochemical
properties of the
developed particle
formulations, from size
and shape to drug
release profile are
broadly reviewed.**

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Advances in both in vitro and in vivo scenarios are discussed, focusing on the possibilities to study the biological-material interface. The

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industrial perspective
on the production of
nanotechnology-based
oral drug delivery
systems is also covered.
Nanotechnology for Oral
Drug Delivery: From

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Concept to Applications
is essential reading for
researchers, professors,
advanced students and
industry professionals
working in the
development,

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manufacturing and/or
commercialization of
nanotechnology-based
systems for oral drug
delivery, targeted drug
delivery, controlled
drug release, materials

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science and

biomaterials, in vitro
and in vivo testing of
potential oral drug
delivery technologies.
Highlights the relevance
of oral drug delivery in

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the clinical setting

Covers the most recent
advances in the field of
nanotechnology for oral
drug delivery Provides
the scientific community
with data that can

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facilitate and guide
their research

Lipid-Based Nanocarriers
for Drug Delivery and
Diagnosis explores the
present state of widely
used lipid-based

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nanoparticulate delivery systems, such as solid lipid nanoparticles (SLN), nanostructured lipid carriers (NLC), nanoliposomes, micelles, nanoemulsions,

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nanosuspensions and lipid nanotubes. The various types of lipids that can be exploited for drug delivery and their chemical composition and

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physicochemical

characteristics are reviewed in detail, along with their characterization aspects and effects of their dimensions on drug

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delivery systems

behavior in-vitro and in-
vivo. The book covers
the effective
utilization of these
lipids based systems for
controlled and targeted

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delivery of potential
drugs/genes for enhanced
clinical efficacy.

Provides the present
state of widely used
lipid-based
nanoparticulate delivery

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systems Explores how lipid-based nanocarriers improve drug delivery safety Describes the nanoformulation design and the preparation methods of lipid-based

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nanocarriers

**Design and Development
of New Nanocarriers
focuses on the design
and development of new
nanocarriers used in
pharmaceutical**

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applications that have emerged in recent years. In particular, the pharmaceutical uses of microfluidic techniques, supramolecular design of nanocapsules, smart

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hydrogels, polymeric
micelles, exosomes and
metal nanoparticles are
discussed in detail.
Written by a diverse
group of international
researchers, this book

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is a valuable reference
resource for those
working in both
biomaterials science and
the pharmaceutical
industry. Shows how
nanomanufacturing

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techniques can help to create more effective, cheaper pharmaceutical products Explores how nanofabrication techniques developed in the lab have been

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translated to commercial
applications in recent
years Explains safety
and regulatory aspects
of the use of
nanomanufacturing
processes in the

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pharmaceutical industry
NanoAgroceuticals &
NanoPhytoChemicals
Liposomes as Drug
Carriers
Percutaneous Penetration
Enhancers Chemical

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**Methods in Penetration
Enhancement
An Evidence Based
Approach
From Concept to
Applications
Functional Foods and**

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Food Supplements

Recent technological advancements, socio-economic trends, and population lifestyle modifications throughout the world indicate the need for foods with increased health benefits.

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The clear relationship between the food that we eat and our well-being is widely recognized. Today, foods are not only intended to satisfy hunger and provide necessary nutrients: they can also confer additional health benefits,

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such as preventing nutrition-related diseases and improving physical and mental well-being. This book provides a comprehensive overview of developments in the field of functional foods and food

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supplements. Readers will discover new food matrices as innovative natural sources of bioactive compounds endowed with health-promoting properties. Studies on chemical, technological, and nutritional

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characteristics of healthy food ingredients, analytical methods for monitoring their quality, and innovative formulation strategies are included.

This book provides an in-depth coverage not only of liver

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pathology but also of diagnosis of the numerous types of liver disease, placing specific emphasis on current treatments of liver pathology including the most up-to-date information on liver transplantation. The first part of

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provides an in-depth account of the liver pathology in different conditions such as Hepatitis, liver ischaemia reperfusion injury, Lyme disease, cirrhotic cardiomyopathy and hepatocellular carcinoma. The

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second part provides a comprehensive overview of diagnostic methods. Of particular interest are chapters on the latest techniques in Patient-specific 3D printing and transient elastography (FibroScan). The

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final part focuses on treatment and provides a step-by step guide to the therapeutic management of liver diseases starting with pharmacological treatment and techniques including surgery and liver transplantation. This is an

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invaluable book for clinicians, practitioners including academics, scientists/researchers and postgraduates to provide the newest knowledge in the field of liver pathogenesis. It is written by a multidisciplinary team of

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experts in hepatothology, gastroenterology, and surgery especially from liver transplantation.

Oral Drug Absorption, Second Edition thoroughly examines the special equipment and methods

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used to test whether drugs are released adequately when administered orally. The contributors discuss methods for accurately establishing and validating in vitro/in vivo correlations for both MR and IR

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formulations, as well as alternative approaches for MR and Pharmaceutical Drug Delivery Systems and Vehicles focuses on the fundamental principles while touching upon the advances in the pharma field with coverage of the

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basic concepts, fundamental principles, biomedical rationales, preparative and characterization techniques, and potential applications of pharmaceutical drug delivery systems and vehicles.

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Nanomedicinal Approaches
Towards Cardiovascular Disease
Applications of Nanobiomaterials
Liver Diseases
Medicinal Chemistry with
Pharmaceutical Product
Development

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Pharmaceutical Drug Delivery
Systems and Vehicles

Resveratrol - Adding Life to Years,
Not Adding Years to Life

**This book intends to strike a
balance between developments in
research and the fact that**

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researchers must absorb and link to scientific advances with clinical practice so that the management of diseases can be based on sound physiological concepts. This book addresses several controversial issues regarding a natural

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**molecule with fascinating
pharmacological and therapeutic
effects. The book contains three
sections: Section 1: Pharmacology
and Therapeutic Applications of
Resveratrol; Section 2:
Bioavailability, Metabolism, and**

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**Mode of Action of Resveratrol;
Section 3: Resveratrol and Its
Role in Chronic and Degenerative
Diseases. Does it Add Life to
Years or Years to Life? It is our
hope that this book will motivate
readers to approach the evidence**

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**on the use resveratrol and thereby
spark an interest in making
further contributions to the
current scientific debate and
treatment development efforts.**

**Surface Chemistry of
Nanobiomaterials brings together**

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**the most recent findings
regarding the surface
modification of currently used
nanomaterials, which is a field
that has become increasingly
important during the last decade.
This book enables the results of**

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current research to reach those who wish to use this knowledge in an applied setting. Leading researchers from around the world present various types of nanobiomaterials, such as quantum dots (QDs), carbon

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**nanotubes, silver nanoparticles,
copper oxide, zinc oxide,
magnesium oxide, magnetite,
hydroxyapatite and graphene, and
discuss their related
functionalization strategies. This
book will be of interest to**

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**postdoctoral researchers,
professors and students engaged
in the fields of materials science,
biotechnology and applied
chemistry. It will also be highly
valuable to those working in
industry, including pharmaceuticals**

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**and biotechnology companies,
medical researchers, biomedical
engineers and advanced clinicians.
An up-to-date and highly
structured reference source for
researchers, practitioners and
students working in biomedical,**

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**biotechnological and engineering
fields A valuable guide to recent
scientific developments, covering
major and emerging applications
of nanomaterials in the
biomedical field Proposes novel
opportunities and ideas for**

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**developing or improving
technologies in nanomedicine and
nanobiology**

**Nanomedicinal Approaches
Towards Cardiovascular Disease
summarizes information about
nanotechnology that is used in the**

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**diagnosis and regenerative
treatment of heart diseases.
Chapters in this reference
introduce the reader to the basics
of cardiac nanomedicine and
cardiac regeneration before
moving to advanced topics such as**

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**nanomedicine in cardiovascular
diagnosis, imaging and
therapeutics. Key Features - 13
chapters that cover
nanotechnological aspects of
cardiovascular diseases,
contributed by expert scholars -**

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**Simple, reader-friendly text
suitable for readers of all
academic levels - Covers
introductory topics of
nanomedicine regenerative
medicine in cardiovascular
disease, cardiovascular diagnosis**

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**and therapeutics - Covers
advanced topics such as
cardiovascular nanotheranositics,
cardiac reprogramming,
biomimetics, drug delivery
systems and smart nanomaterials
- Includes a chapter on ethical**

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**implications in cardiovascular
nanomedicine - Includes
bibliographic references for each
chapter Nanomedicinal
Approaches Towards
Cardiovascular Disease is a
simple. informative reference on**

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**cardiovascular nanomedicine for
scholars, healthcare professionals
and nanotechnology enthusiasts,
alike, which provides holistic
knowledge on the subject in a
single volume.**

Antimicrobial

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**Nanoarchitectonics: From
Synthesis to Applications brings
together recent research in
antimicrobial nanoparticles,
specifically in the sustained and
controlled delivery of
antimicrobials. Particular**

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attention is given to i) reducing the side effects of antibiotics, ii) increasing the pharmacological effect, and iii) improving aqueous solubility and chemical stability of different antimicrobials. In addition, antimicrobial

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nanoparticles in drug delivery are discussed extensively. The book also evaluates the pros and cons of using nanostructured biomaterials in the prevention and eradication of infections. It is an important reference resource for

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**materials scientists and
bioengineers who want to learn
how nanomaterials are used in
antimicrobial therapy. Provides
readers with the information
necessary to select the appropriate
bionanomaterial to solve**

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particular infection problems

**Includes case studies, showing
how particular bionanomaterials
have been used to cure infections**

**Explains the central role that
nanotechnology plays in modern
antimicrobial therapy Evaluates**

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**the pros and cons of using
nanostructured biomaterials in
the prevention and eradication of
infections**

**Fundamentals of Nanoparticles
Oral Drug Absorption
Innovative Approaches for**

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**Nanobiotechnology in Healthcare
Systems**

From Synthesis to Applications

**Nanocarriers for Organ-Specific
and Localized Drug Delivery**

**Nano Drug Delivery Strategies for
the Treatment of Cancers**

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The delivery of optimal pharmaceutical services to patients is a pivotal concern in the healthcare field. By examining current trends and techniques in the industry, processes can be maintained

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**and improved. Pharmaceutical
Sciences: Breakthroughs in
Research and Practice
provides comprehensive
coverage of the latest
innovations and advancements
for pharmaceutical**

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**applications. Focusing on
emerging drug development
techniques and drug delivery
for improved health outcomes,
this book is ideally designed
for medical professionals,
pharmacists, researchers,**

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academics, and upper-level students within the growing pharmaceutical industry. Nanophytomedicine is a field that involves the application of nanomedicine-based systems to phytotherapy and

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phytopharmacology. This book assesses the clinical successes and failures of nanophytomedicine and also highlights emerging concepts in this field. The content is divided into three sections,

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the first of which describes core issues in the pharmaceuticals industry in connection with the successes, failures and prospects of nanophytomedicine. The second section highlights

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**recent advances in
phytomedicine formulation
development based on
nanotechnology approaches,
while also discussing a variety
of nanocarrier systems for the
successful delivery of**

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phytomedicines. Focusing on the clinical perspective, the third section addresses the current clinical status of nanophytomedicine as a single drug therapy or combinatorial drug therapy,

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**pharmacovigilance,
pharmacokinetics, drug
interactions and toxicological
profiles, while also providing
concluding remarks on recent
experimental findings, and
considering ethical issues &**

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**regulatory challenges in
nanophytomedicine. Given its
scope, the book offers a
valuable guide for early career
researchers, young scientists,
master level students,
academics and industrial**

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**scientists working in various
healthcare fields, e.g. the
pharmaceutical and biological
sciences, life sciences,
biotechnology, biomedical
engineering, and
nanobiotechnology.**

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**Nanostructures for Cancer
Therapy discusses the
available preclinical and
clinical nanoparticle
technology platforms and their
impact on cancer therapy,
including current trends and**

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developments in the use of nanostructured materials in chemotherapy and chemotherapeutics. In particular, coverage is given to the applications of gold nanoparticles and quantum

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dots in cancer therapies. In addition to the multifunctional nanomaterials involved in the treatment of cancer, other topics covered include nanocomposites that can target tumoral cells and the

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**release of antitumoral
therapeutic agents. The book
is an up-to-date overview that
covers the inorganic and
organic nanostructures
involved in the diagnostics and
treatment of cancer. Provides**

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**an examination of nanoparticle
delivery systems for cancer
treatment, illustrating how the
use of nanotechnology can
help provide more effective
chemotherapeutic treatments
Examines, in detail, the**

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**different types of
nanomaterials used in cancer
therapy, also explaining the
effect of each Provides a
cogent overview of recent
developments in the use of
nanostructured materials in**

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**chemotherapeutics, allowing
readers to quickly familiarize
themselves with this area
Nanocarriers for Cancer
Diagnosis and Targeted
Chemotherapy reviews the
principles and applications of**

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nanocarriers for targeted drug delivery. Drug targeting involves active and passive strategies that exploit both the use of ligands for interactions and the physical and chemical properties of

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**nanocarriers and micro-
environments at target sites.
Multidrug resistance and
adverse side effects
associated with anticancer
drugs have attracted greater
scientific attention and led**

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formulation scientists to specifically target these drugs to target sites. Nanocarriers like liposomes, niosomes, gold nanorods, carbon nanotubes, and micelles are discussed for the delivery of drugs to

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specific disease sites. This is an important reference source for researchers in the biomedical and biomaterials fields who want to gain an understanding on how nanotechnology is used for

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**earlier diagnoses and more
effective cancer treatment.
Explores the fundamental
principles of drug targeting
through different nano-
carriers, highlighting major
applications Shows how the**

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**use of nanocarriers is leading
to quicker cancer diagnosis
and more effective treatment
Discusses the major
challenges of using
nanocarriers for drug delivery
and assesses how to overcome**

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these barriers

**Lipid-Based Nanocarriers for
Drug Delivery and Diagnosis
Antimicrobial
Nanoarchitectonics
Nanophytomedicine
Nanostructures for Drug**

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Delivery

**Smart Nanovesicles for Drug
Targeting and Delivery
NanoNutraceuticals**

*This new edition brings you up-to-date
on the role of pharmaceuticals and its
future paradigms in the design of*

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medicines. Contributions from over 30 international thought leaders cover the core disciplines of pharmaceuticals and the impact of biotechnology, gene therapy, and cell therapy on current findings. Modern Pharmaceuticals helps you stay current Innovative and fusion technologies

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have shown an incredible ability to improve various aspects of society, such as healthcare systems.

Nanobiotechnology is one such technology that is being applied to medical equipment and treatment approaches. Many pharmaceutical and medical companies have begun to

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count on medical nanotechnology due to its abundant applications and practical uses. Innovative Approaches for Nanobiotechnology in Healthcare Systems is a pivotal reference source that provides insights into a comprehensive collection of novel techniques used for the development

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of safe drugs using the available resources for diverse deadly diseases. This book discusses the various platforms of nanobiotechnology that are utilized in various fields. It is expected that bionanosystems will play a crucial role in the treatment of human diseases and the improvement of

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existing healthcare systems. This book is ideal for scientists, biotechnologists, microbiologists, medical professionals, entrepreneurs, policymakers, researchers, academicians, and students.

*Fundamentals of Nanoparticles:
Classifications, Synthesis Methods,*

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Properties and Characterization explores the nanoparticles and architecture of nanostructured materials being used today in a comprehensive, detailed manner. This book focuses primarily on the characterization, properties and synthesis of nanoscale materials, and

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is divided into three major parts. This is a valuable reference for materials scientists, and chemical and mechanical engineers working in R&D and academia, who want to learn more about how nanoparticles and nanomaterials are characterized and engineered. Part one covers

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nanoparticles formation, self-assembly in the architecture nanostructures, types and classifications of nanoparticles, and signature physical and chemical properties, toxicity and regulations. Part two presents different ways to form nanometer particles, including bottom-up and top-down

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approaches, the classical and non-classical theories of nanoparticles formation and self-assembly, surface functionalization and other surface treatments to allow practical use. Part three covers characterization of nanoparticles and nanostructured materials, including the determination

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of size and shape, in addition to atomic and electronic structures and other important properties. Includes new physical and chemical techniques for the synthesis of nanoparticles and architecture nanostructures Features an in-depth treatment of nanoparticles and nanostructures, including their

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characterization and chemical and physical properties Explores the unusual properties of materials that are developed by modifying their shape and composition and by manipulating the arrangement of atoms and molecules Explains important techniques for the synthesis,

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fabrication and the characterization of complex nano-architectures
Percutaneous Penetration Enhancers in a mini-series format comprising five volumes, represents the most comprehensive reference on enhancement methods – both well established and recently introduced –

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in the field of dermal/transdermal drug delivery. In detail the broad range of both chemical and physical methods used to enhance the skin delivery of drugs is described. All aspects of drug delivery and measurement of penetration are covered and the latest findings are provided on skin structure

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and function, mathematics in skin permeation and modern analytical techniques adapted to assess and measure penetration. In offering a detailed description of the methods currently in use for penetration enhancement, this book will be of value for researchers, pharmaceutical

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*scientists, practitioners and also
students.*

*Novel Drug Delivery Systems for
Phytoconstituents*

*Smart Nanomaterials in Biomedical
Applications*

*DIABETES MELLITUS TYPE 2
Pharmaceutical Sciences:*

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*Breakthroughs in Research and
Practice*

*Design and Development of New
Nanocarriers*

Novel Approaches for Drug Delivery

***With the start of 2020,
the wrath of pandemic
challenged the scientific***

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*community to develop more
advanced drug delivery
approaches for biomedical
applications, endowing
conventional drugs with
additional therapeutic
benefits and minimum side*

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effects. Although significant advancements have been done in the field of drug delivery, there is a need to focus towards strategizing novel and improved drug delivery

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systems that should be convenient and cost-effective to the patients, and simultaneously they should also provide financial benefits to pharmaceutical companies.

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Controlled drug delivery technology offers ample opportunities and scope for improvising the therapeutic efficacy of drugs via optimizing the drug release rate and

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time. For this endeavour, smart nanomaterials have served as remarkable candidates for biomedical applications, owing to their ground-breaking properties and design. The

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*development of such
nanomaterials requires a
broad knowledge related to
their physio-chemical
properties, molecular
structure, mechanisms by
which the nanomaterials*

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interact with the cells, and methods by which drugs are released at the site of action. This knowledge must also be allied with the knowledge of signaling crosstalk mechanisms that

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*are modulated by the
nanomaterial-drugs
composite. It can be
anticipated that these
emerging drug delivery
technologies can
facilitate the world to*

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*successfully encounter
such pandemic outbursts in
the future in a cost-
effective and time-
effective manner. The
chapters in this book deal
with the advanced*

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*technologies and
approaches that can
benefit advanced students,
researchers, and industry
experts in developing
smart and intelligent
nanomaterials for future*

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*biomedical applications,
and development,
manufacturing, and
commercialization for
controlled and targeted
drug delivery.*

This book will be a

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*comprehensive account of
the various facets of
nutraceuticals domain. The
peruser of this book will
find details on various
nanotech approaches to
nutraceuticals, prebiotics*

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*and probiotics, along with
their specific
applications.*

*Nanoscience or the science
of the very small offers
the pharmaceutical
scientist a wealth of*

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opportunities. By fabricating at the nanoscale, it is possible to exert unprecedented control on drug activity. This textbook will showcase a variety of

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nanosystems working from their design and construction to their application in the field of drug delivery. The book is intended for graduate students in drug delivery,

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*physical and polymer
chemistry, and applied
pharmaceutical sciences
courses that involve
fundamental nanoscience.
The purpose of the text is
to present physicochemical*

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*and biomedical properties
of synthetic polymers with
an emphasis on their
application in polymer
therapeutics i.e.,
pharmaceutical
nanosystems, drug delivery*

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and biological

*performance. There are two
main objectives of this
text. The first is to
provide advanced graduate
students with knowledge of
the principles of*

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nanosystems and polymer science including synthesis, structure, and characterization of solution and solid state properties. The second is to describe the

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*fundamentals of
therapeutic applications
of polymers in drug
delivery, targeting,
response modifiers as well
as regulatory issues. The
courses, often listed as*

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*Advanced Drug Delivery and
Applied Pharmaceutics;
Polymer Therapeutics; or
Nanomedicine, are designed
as an overview of the
field specifically for
graduate students in the*

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*Department of
Pharmaceutical Sciences
Graduate Programs.*

*However, the course
content may also be of
interest for graduate
students in related*

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*biomedical research
programs. These courses
generally include a
discussion of the major
principles of polymer
science and fundamental
concepts of application of*

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*polymers as modern
therapeutics. All courses
are moving away from the
above mentioned course
names and going by
'pharmaceutical
nanoscience or*

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nanosystems' . This area of research and technology development has attracted tremendous attention during the last two decades and it is expected that it will continue to

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grow in importance.

However, the area is just emerging and courses are limited but they are offered.

This volume focuses on novel therapeutics and

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*strategies for the
development of
pharmaceutical products,
keeping the drug molecule
as the central component.
It discusses current
theoretical and practical*

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*aspects of pharmaceuticals
for the discovery and
development of novel
therapeutics for health
problems. Explaining the
necessary features
essential for*

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*pharmacological activity,
it takes an
interdisciplinary approach
by including a unique
combination of pharmacy,
chemistry, and medicine
along with clinical*

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aspects. It takes into consideration the therapeutic regulations of the USP along with all the latest therapeutic guidelines put forward by WHO, and the US Food and

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Drug Administration.

*Fundamentals of
Pharmaceutical Nanoscience
Nanostructures for Oral
Medicine
Breakthroughs in Research
and Practice*

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*Concept to Clinic
Therapeutic,
Nutraceutical, and
Cosmetic Advances
Volume 1: Expectations and
Realities of
Multifunctional Drug*

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Delivery Systems

*Nanostructures for Drug
Delivery extensively
covers the various
nanostructured products
that have been tested as
carriers in target drug*

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delivery systems. In addition, the book analyses the advantages of, and issues related to, using nanostructured materials in drug delivery systems, also

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detailing various nanocarrier preparation techniques. As delivering the drug to the target site is a major problem in providing effective

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treatment for many diseases, this book covers the latest advancements in numerous nanotechnological products that are being used in disease

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detection, controlled drug delivery, as biosensors, and in tissue engineering that have been developed for more efficient patient healthcare. Due to the

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versatility of nanostructured materials, it is now possible to deliver a drug at its target site in a more accurate and efficient way. This

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volume is an up-to-date, state-of-the-art work that highlights the principal mechanistic aspects related to the delivery of active nanoscale therapeutic

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agents (natural or synthetic) and their release profile in different environmental media. It highlights nanoscale encapsulation strategies and discusses

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*both organic and
inorganic nanomaterials
as carriers and delivery
platforms. Demonstrates
how nanostructures are
successfully employed in
drug delivery stems and*

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as drug delivery agents, allowing biomaterials scientists and biochemists to create more effective drug delivery systems Offers an overview of recent

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research into the use of nanostructures in drug delivery techniques in a cogent, synthesized way, allowing readers to quickly familiarize themselves with this

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area Includes examples of how the application of nanostructures have improved the efficiency of drug delivery systems, showing medical scientists how they are

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beneficial

*Nano Drug Delivery
Strategies for the
Treatment of Cancers
discusses several
current and promising
approaches for the*

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diagnosis and treatment of cancer by using the most recent developments in nanomedical technologies. The book presents introductory information about the

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biology of different types of cancer in order to provide the reader with knowledge on their specificities. In addition, it discusses various novel drug

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delivery systems, detailing their functionalities, expected outcomes and future developments in the field, focusing on brain, mouth and throat,

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breast, lung, liver, pancreas, stomach, colon, bcool, skin and prostate cancers. The book is a valuable source for cancer researchers,

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oncologists, pharmacologists and nanotechnologists who are interested in novel drug delivery systems and devices for treatment of various

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types of cancer that take advantage of recent advances in this exciting field.

Discusses a wide range of promising approaches for the diagnosis and

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treatment of cancer using the latest advancement in cutting-edge nanomedical technologies Provides foundational information on different types of

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*cancer and their biology
to help the reader
choose the best nano
drug delivery system for
patients Presents novel
drug delivery systems
based on nanoparticles,*

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*microparticles,
liposomes, self-
assembling Micelles and
block copolymer micelles*
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Nanovesicles are highly-promising systems for the delivery and/or targeting of drugs,

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biomolecules and contrast agents. Despite the fact that initial studies in this area were performed on phospholipid vesicles, there is an ever-

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increasing interest in the use of other molecules to obtain smart vesicular carriers focusing on strategies for targeted delivery. These systems can be

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obtained using newly synthesized smart molecules, or by intelligent design of opportune carriers to achieve specific delivery to the site of

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action. The drug/contrast agent-containing vesicles need to be directed to precise locations within the body to obtain desired magnitude and

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duration of the therapeutic or diagnostic effect. This spatial control in the delivery might open new avenues to modulate drug activity while avoiding

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side-effects and to optimize contrast agent properties while avoiding a broad distribution in the organism. However, delivering and targeting

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active substances into specific tissues and cells is still a challenge in designing novel therapeutic approaches against untreatable disorders,

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such as tumors and degenerative diseases. Nanostructures for Oral Medicine presents an up-to-date examination of the applications and effects of

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nanostructured materials in oral medicine, with each chapter addressing recent developments, specific applications, and uses of nanostructures in the

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oral administration of therapeutic agents in dentistry. The book also includes coverage of the biocompatibility of nanobiomaterials and their remarkable

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potential in improving human health and in reducing environmental pollution. Emerging advances, such as Dr. Franklin Tay's concept of a new nanotechnology

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process of growing extremely small, mineral-rich crystals and guiding them into the demineralized gaps between collagen fibers to prevent the aging and

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degradation of resin-dentin bonding is also discussed. This work will be of great value to those who work in oral medicine, providing them with a resource to

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gain a greater understanding of how nanotechnology can help them create more efficient, cost-effective products. In addition, it will be of

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great interest to those who work in materials science who wish to gain a greater appreciation of how nanostructured materials are applied in this field. Outlines the

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major uses of

nanostructured materials for oral medicine, including the properties of each material discussed and how it should best be applied

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Explores how nanostructured materials enable the creation of more effective drug delivery systems in oral medicine Discusses how novel uses of

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Bioavailability Of

*nanostuctured materials
may be applied in oral
medicine to create more
effective devices*

*Surface Chemistry of
Nanobiomaterials*

Nanotechnology

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*Prediction and
Assessment, Second
Edition*

*Nanomaterials and
Environmental
Biotechnology
Classifications,*

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*Synthesis Methods,
Properties and
Characterization*

*Recent Advances in Novel
Drug Carrier Systems*

**A suitable drug delivery
system is an essential element**

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**in achieving efficient
therapeutic responses of drug
molecules. With this
desirability in mind, the book
unites different techniques
through which extremely small-
sized particles can be utilized**

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as a successful carrier for curing chronic as well as life-threatening diseased conditions. This is a highly informative and prudently organized book, providing scientific insight for readers

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**with an interest in
nanotechnology. Beginning
with an overview of
nanocarriers, the book
impetuses on to explore other
essential ways through which
these carriers can be**

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employed for drug delivery to varieties of administrative routes. This book discusses the functional and significant features of nanotechnology in terms of Lymphatic and other drug targeting deliveries. The

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**book is presenting depth
acquaintance for various
vesicular and particulate nano-
drug delivery carriers, utilized
successfully in
Pharmaceutical as well as in
Cosmeceutical industries**

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along with brief information on their related toxicities. In addition, the work also explores the potential applications of nanocarriers in biotechnology sciences for the prompt and safe delivery of

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**nucleic acid, protein, and
peptide-based drugs. An
exclusive section in the book
illuminates the prominence
and competent applicability of
nanotechnology in the
treatment of oral cancer. The**

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persistence of this book is to provide basic to advanced information for different novel carriers which are under scale-up consideration for the extensive commercialization. The book also includes recent

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discoveries and the latest patents of such nanocarriers. The cutting-edge evidence of these nanocarriers available in this book is beneficial to students, research scholars, and fellows for promoting their

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advanced research.

**Today we find the applications
of nanotechnology in all
spheres of life.**

**Nanotechnology: Therapeutic,
Nutraceutical and Cosmetic
Advances discusses recent**

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**advances in the field,
particularly with therapeutics,
nutraceuticals and cosmetic
sciences. Therapeutics is an
area which has perhaps
benefitted the most, although
nanoscience and technology**

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have quietly entered the realms of food science and are playing pivotal roles in the efficient utilization of nutraceuticals. Finally, even before therapeutics came cosmetics and companies

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started marketing unique products embedding the beneficial and advanced properties enabled by the use of nanostructures. This book highlights trends and applications of this wonderful

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new technology.

Nanotechnology is considered as one of the emerging fields of science. It has applications in different biological and technological fields which deal with the science of materials

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at nanoscale (10⁻⁹). On the other hand, biotechnology is another field that deals with contemporary challenges. Nanobiotechnology fills the gap between these two fields. It merges physical, chemical,

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and biological principles in a single realm. This combination opens up new possibilities. At nanoscale dimensions, it creates precise nanocrystals and nanoshells. Integrated nanomaterials are used with

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modified surface layers for compatibility with living systems, improved dissolution in water, or biorecognition leading to enhanced end results in biotechnological systems. These nanoparticles

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can also be hybridized with additional biocompatible substances in order to amend their qualities to inculcate novel utilities.

Nanobiotechnology is used in bioconjugate chemistry by

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**coalescing up the functionality
of non-organically obtained
molecular components and
biological molecules in order
to veil the immunogenic
moieties for targeted drug
delivery, bioimaging and**

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**biosensing. This book blends
the science of biology,
medicine, bioinorganic
chemistry, bioorganic
chemistry, material and
physical sciences, biomedical
engineering, electrical,**

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**mechanical, and chemical
science to present a
comprehensive range of
advancements. The
development of nano-based
materials has made for a
greater understanding of their**

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characterization, using techniques such as transmission electron microscope, FTIR, X-ray diffraction, scanning electron microscope EDX, and so on. This volume also highlights

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**uses in environmental
remediation, environmental
biosensors and environmental
protection. It also emphasizes
the significance of
nanobiotechnology to a series
of medical applications viz.,**

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**diagnostics, and therapeutics
stem cell technology, tissue
engineering enzyme
engineering, drug
development and delivery. In
addition this book also offers
a distinctive understanding of**

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**nanobiotechnology from
researchers and educators
and gives a comprehensive
facility for future
developments and current
applications of
nanobiotechnology.**

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Providing optimal care to patients is a primary concern in the healthcare field. By utilizing the latest resources and research in biomedical applications, the needs and expectations of patients can

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**be successfully exceeded.
Novel Approaches for Drug
Delivery is an authoritative
reference source for the latest
scholarly research on
emerging developments within
the pharmaceutical industry,**

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**examining the current state
and future directions of drug
delivery systems. Highlighting
therapeutic applications,
predictive toxicology, and risk
assessment perspectives, this
book is ideally designed for**

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**medical practitioners,
pharmacists, graduate-level
students, scientists, and
researchers.**

**Nanopharmaceuticals
Nanocarriers: Drug Delivery
System**

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**Nanostructures for Cancer
Therapy**

**Nanocarriers for Cancer
Diagnosis and Targeted
Chemotherapy**

**A Multidisciplinary Textbook
Modern Pharmaceutics, Two**

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Volume Set

Sixty contributions on liposomes and their uses in drug delivery. Conventional use of drugs suffers from indiscriminate drug action leading to side effects; failure of drugs to reach areas in need of pharmacological intervention;

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and premature drug inactivation and secretion. This book describes how liposomes incorporating drugs can direct these to diseased areas (in isolation from non-target biological areas) and introduce drugs to areas otherwise

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inaccessible. Discusses the interaction of liposomes with the biological milieu in vitro and in vivo, ways of optimizing liposomal behavior by manipulation of the carrier, applications related to antimicrobial and cancer therapy, vaccines, enzyme therapy, metal

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***detoxification, diagnostics, and
more.***

***Novel Drug Delivery Systems for
Phytoconstituents discusses
general principles of drug
targeting, construction material
and technological concerns of
different phytoconstituent in***

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delivery systems. It focuses on the development of novel herbal formulations and summarizes their method of preparation, type of active ingredients, route of administration, biological activity and their applications. It dicusses therapeutic activities of plant

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derived chemicals, their limitations in clinical applications and novel drug delivery solutions to overcome them to provide better therapeutic effects with controlled and targeted drug delivery. Focus on drug delivery

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***of phyto molecules Act as bridge
between natural product scientist
and clinical doctors Discusses
mechanism of poor bioavailability
of herbal molecules Increases
awareness towards phytochemical
efficacy Summarizes efficient
novel delivery systems-based***

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formulations. It extensively covers the applications of novel drug delivery systems including polymeric nanoparticles, solid lipid nanoparticles, nanostructured lipid capsules, liposomes, phytosomes, microspheres, transfersomes, and

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ethosomes. Some chapters are especially focused on anticancer phytodrugs, silymarin, andrographolide, berberine, and curcumin delivery with special emphasis on their application. This book volume encompasses the recent trends made in the

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applications of nanoscale tools for diverse constituents of plants and agriculture, particularly in addressing the critical issues related to their safety, efficacy, and efficient and cost-efficient development and production. Nanopharmaceuticals reviews

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advances in the drug delivery field via nanovehicles or nanocarriers that offer benefits like targeted therapy and serves as a single dose magic bullet for multiple drug delivery with improved drug efficiency at a lower dose, transportation of the

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drug across physiological barriers as well as reduced drug-related toxicity. The chapters are written by a diverse group of international researchers from industry and academia. The series Expectations and Realities of Multifunctional Drug Delivery

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Systems examines the fabrication, optimization, biological aspects, regulatory and clinical success of wide range of drug delivery carriers. This series reviews multifunctionality and applications of drug delivery systems, industrial trends,

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regulatory challenges and in vivo success stories. Throughout the volumes discussions on diverse aspects of drug delivery carriers, such as clinical, engineering, and regulatory, facilitate insight sharing across expertise area and form a link for collaborations

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***between industry-academic
scientists and clinical
researchers. Expectations and
Realities of Multifunctional Drug
Delivery Systems connects
formulation scientists, regulatory
experts, engineers, clinical
experts and regulatory stake***

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holders. The wide scope of the book ensures it as a valuable reference resource for researchers in both academia and the pharmaceutical industry who want to learn more about drug delivery systems. Other volumes in the Expectations and Realities

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***of Multifunctional Drug Delivery
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Drug Delivery Trends, Volume 3,
9780128178706 Drug Delivery
Aspects, Volume 4,
9780128212226 Encompasses
functional aspects of***

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***nanocarriers Discusses
Intellectual Property landscapes
of micro-nano drug carriers
Contains in-depth investigation
of specific aspects of drug
delivery systems
Recent Trends and Progress
Nanocarriers***

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***Nanotechnology for Oral Drug
Delivery***

Organ-specific drug
delivery is aimed at
achieving increased
concentration of
therapeutic molecules at

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target sites with minimum side effects on other healthy tissues. Similarly, drug-specific delivery to some vital organs, such as the brain, lungs, heart and

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kidneys remains a challenging task for the formulation scientists. Oral delivery of most of the commercially available life-saving drugs has also been

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impeded by various physio-chemical and biological barriers.

These advancements in nanotechnology have led to the development of various pharmaceutical

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Nanocarriers for Organ-Specific and Localized Drug Delivery summarizes targeted drug delivery systems and approaches to the major organs of

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the body. The book shows how drugs can be specifically targeted to the pathological area within an organ in a viable way. Employing pharmaceutical

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nanocarriers for drug delivery targeted to specific organs of the body requires a comprehensive knowledge of the disease site's pathophysiology as well

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as physical, chemical and pharmaceutical techniques for modification or functionalization of the nanocarriers. Combining theoretical principles

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and practical

applications of various nanocarriers for organ-specific drug delivery, this is an important reference source for all those seeking to

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increase their understanding of how pharmaceutical nanocarriers are being used to create more efficient drug delivery systems. Outlines the

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underlying principles for the design of advanced pharmaceutical nanocarriers for organ specific drug delivery Includes guidance on how to exploit the

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pathophysiology and microenvironment of the diseased sites for targeted drug delivery
Assesses the major challenges for creating pharmaceutical

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nanocarriers on a mass scale

This theses on Diabetes Mellitus aims at giving an insight at various aspects of this chronic disease and the risk

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factors that lead to it; the various ways it develops in the human body; the old and new approaches to treatment, both from a pharmacological and a

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non pharmacological point of view; ways to prevent and to manage the diabetes complications; how to improve the live of the diabetic patients who

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are faced with not only physical but also psychological problems; statistical data from around the world which focuses on epidemiology and outlines the issue

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of the cost of diabetes. Finally, this paper links diabetes mellitus with the Alzheimer's disease as a different expression of diabetes, since it is closely

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associated with several key neuronal factors implicated in dementia. In many respects, Alzheimer's is a brain form of diabetes. Even in the earliest stages

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of the disease, the brain's ability to metabolize sugar is reduced. Normally, insulin plays a big role in helping the brain take up sugar from the

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blood. But, in Alzheimer's, insulin is not very effective in the brain. Consequently, the brain cells practically starve to death