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consists of water but is also an abundant source of diverse biomaterials for mankind. Marine biomaterials are a new emerging area of research with

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Biomaterials are used
to replace diseased or

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damaged part of the body (artificial hip, joint, and kidney), assist healing (suture, bone screw, and bone plates), improve function (cardiac pacemaker...

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The present paper will review the recent progress in research on the structural chemistry and the bioactivities of these marine algal biomaterials. In particular, it will

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provide an update on the structural chemistry of the major sulfated polysaccharides synthesized by seaweeds including the galactans (e.g., agarans and carrageenans), ulvans, and fucans.

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applications brings
together the wide
range of research in
this important area
including the latest
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Several marine biomaterials are currently being proposed for the sustained delivery of bioactive compounds, often triggered by external stimuli, which may be

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combined with
polymeric matrices
for cell culture, on the
development of the so-
called functional
biopolymers.

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Marine biomaterials
have been fabricated
to nanofibrous
matrices by many

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researchers, and explored for various tissue engineering applications such as bone, cartilage, and skin tissue regeneration. Alginate is one of the great candidates for preparing nanofibrous matrices for tissue engineering.

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Marine biomaterials are a new emerging area of research with significant applications. Recently, researchers have paid a considerable attention to marine-derived biomaterials for various applications. Due to

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vast diversity and
biocompatibility
marine-derived
bioceramics,
polysaccharides,
enzymes, peptides,
lipids, CONTENTS

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is a relatively new field that involves the discovery and application of products and processes derived from marine organisms. Its promising future reflects the tremendous biodiversity of the world's oceans and seas that cover more

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Marine Biology
than three-quarters of
the earth's surface.

Most major groups of
living organisms

primarily or

exclusively are

marine, and the

demands of their

environment have led

these organisms to

evolve unique

structures, metabolic

pathways,

reproductive ...

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Oceans are an abundant source of diverse biomaterials with potential for an array of uses. *Marine Biomaterials: Characterization, Isolation and Applications* brings together the wide range of research in this important area, including the latest developments and

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applications, from preliminary research to clinical trials. The book is divided into four

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to clinical trials. The
book is divided into
four parts, with
chapters written by

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experts from around
the world.

Biomaterials
described come from
a variety of marine
sources, such as fish,
algae,
microorganisms,
crustaceans, and
mollusks. Part I
covers the isolation
and characterization
of marine biomaterial
s—bioceramics,

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biopolymers, fatty acids, toxins and pigments, nanoparticles, and adhesive materials. It also describes problems that may be encountered in the process as well as possible solutions. Part II looks at biological activities of marine biomaterials, including

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polysaccharides,
biotoxins, and
peptides. Chapters
examine health
benefits of the
biomaterials, such as
antiviral activity,
antidiabetic
properties,
anticoagulant and
anti-allergic effects,
and more. Part III
discusses biomedical
applications of

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marine biomaterials,
including
nanocomposites, and
describes applications
of various materials
in tissue engineering
and drug delivery.

Part IV explores
commercialization of
marine-derived
biomaterials—marine
polysaccharides and
marine
enzymes—and

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examines industry perspectives and applications. This book covers the key aspects of available marine biomaterials for biological and biomedical applications, and presents techniques that can be used for future isolation of novel materials from marine sources.

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This Springer Handbook provides, for the first time, a complete and consistent overview over the methods, applications, and products in the field of marine biotechnology. A large portion of the surface of the earth (ca. 70%) is covered

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by the oceans. More than 80% of the living organisms on the earth are found in aquatic ecosystems. The aquatic systems thus constitute a rich reservoir for various chemical materials and (bio-)chemical processes. Edited by a renowned expert with a longstanding experience, and

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including over 60
contributions from
leading international
scientists, the
Springer Handbook of
Marine Biotechnology
is a major
authoritative desk
reference for
everyone interested
or working in the
field of marine
biotechnology and
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Undergraduate and graduate students, over scientists and teachers, to professionals. Marine biotechnology is concerned with the study of biochemical materials and processes from marine sources, that play a vital role in the isolation of novel drugs, and to bring

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them to industrial and pharmaceutical development. Today, a multitude of bioprocess techniques is employed to isolate and produce marine natural compounds, novel biomaterials, or proteins and enzymes from marine organisms, and to bring them to applications as

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pharmaceuticals,
cosmeceuticals or
nutraceuticals, or for
the production of
bioenergy from
marine sources. All
these topics are
addressed by the
Springer Handbook of
Marine
Biotechnology. The
book is divided into
ten parts. Each part is
consistently

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Marine Biotechnology, so that the handbook provides a sound introduction to marine biotechnology - from historical backgrounds and the fundamentals, over the description of the methods and technology, to their applications - but it can also be used as a reference work. Key topics include: -

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in medical and
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applications - and

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Biomaterials for Skin
Repair and

Regeneration
examines a range of
materials and
technologies used for
regenerating or
repairing skin. With a
strong focus on
biomaterials and
scaffolds, the book
also examines the

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Testing and evaluation pathway for human clinical trials.

Beginning by
introducing the
fundamentals on skin
tissue, the book goes
on to describe
contemporary
technology used in
skin repair as well as
currently available
biomaterials suitable
for skin tissue repair

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and regeneration.

Skin tissue engineering and the ideal requirements to take into account when developing skin biomaterials are discussed, followed by information on the individual materials used for skin repair and regeneration. As evaluation of biomaterials in

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Animal models is mandatory before proceeding into human clinical trials, the book also examines the different animal models available.

With a strong focus on materials, engineering, and application, this book is a valuable resource for materials

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scientists, skin
biologists, and
bioengineers with an
interest in tissue
engineering,
regeneration, and
repair of skin.

Provides an
understanding of
basic skin biology
Comprehensively
examines a variety of
biomaterial
approaches Looks at

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animal models for the
evaluation of
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skin constructs

The seafood processing industry produces a large amount of by-products that usually consist of bioactive materials such as proteins, enzymes, fatty acids, and

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biopolymers. These by-products are often underutilized or wasted, even though they have been shown to have biotechnological, nutritional, pharmaceutical, and biomedical applications. For example, by-products derived from crustaceans and algae

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have been
successfully applied
in place of collagen
and gelatin in food,
cosmetics, drug
delivery, and tissue
engineering. Divided
into four parts and
consisting of twenty-
seven chapters, this
book discusses
seafood by-product
development,
isolation, and

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characterization, and demonstrates the importance of seafood by-products for the pharmaceutical, nutraceutical, and biomedical industries.

Provides comprehensive coverage of the research into and clinical uses of

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bioceramics and
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Developments related
to bioceramics and
biocomposites appear
to be one the most
dynamic areas in the
field of biomaterials,
with multiple
applications in tissue
engineering and
medical devices. This
book covers the basic
science and

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applications in
dentistry and
orthopedics, as well
as the state-of-the-art
aspects of
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techniques, tissue
engineering,
remodeling, and
regeneration of bone
tissue. It also provides

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create new
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offers complete coverage of everything from extending the concept of hemopoietic and stromal niches, to the evolution of bioceramic-based scaffolds. It looks at perspectives on and trends in bioceramics in endodontics, and discusses the influence of newer

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biomaterials use on
the structuring of the
clinician ' s attitude
in dental practice or
in orthopedic surgery.

The book also covers
such topics as
biofabrication
techniques for
bioceramics and
biocomposites; glass
ceramics: calcium
phosphate coatings;
brain drug delivery

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diagnostics and
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and their influence on
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how to use these
biomaterials to create
new functionalities
when interfaced with
biological molecules
or structures Offers a
range of applications
in clinical practice,
including bone tissue

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Clinical Practice is an excellent resource for biomaterials scientists and engineers, bioengineers, materials scientists, and engineers. It will also benefit mechanical engineers and biochemists who work with biomaterials scientists.

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Polysaccharides:
Isolation, Biological,
and Biomedical

Applications
examines the
isolation and
characterization of
algal biopolymers,
including a range of
new biological and
biomedical
applications. In recent
years, significant

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Developments have been made in algae-based polymers (commonly called polysaccharides), and in biomedical applications such as drug delivery, wound dressings, and tissue engineering. Demand for algae-based polymers is increasing and represent a

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potential—very inexpensive—resource for these applications. The structure and chemical modification of algal polymers are covered, as well as the biological properties of these materials – including antithrombic, anti-inflammatory, anticoagulant, and

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antiviral aspects.

Toxicity of algal biopolymers is also covered. Finally, the book introduces and explains real world applications of algal-based biopolymers in biomedical applications, including tissue engineering, drug delivery, and biosensors. This is the

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first book to cover the extraction techniques, biomedical applications, and the economic perspective of seaweed polysaccharides. It is an essential text for researchers and industry professionals looking to work with this renewable resource. Provides comprehensive

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coverage of the
research currently
taking place in
biomedical
applications of algae
biopolymers Includes
practical guidance on
the isolation,
extraction, and
characterization of
polysaccharides from
sustainable marine
sources Covers the
extraction techniques,

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This book presents an introduction to biomaterials with the focus on the current development and future direction of biomaterials and medical devices

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research and
development in
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first biomaterials
book written by
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and clinical experts
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various institutions
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researchers starting
new projects, for
companies
developing and
marketing products
and for governments
setting new policies.
Chapter one covers
the fundamentals of
biomaterials, types of
biomaterials, their
structures and
properties and the
relationship between

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them. Chapter two discusses unconventional processing of biomaterials including nano-hybrid organic-inorganic biomaterials. Chapter three addresses biocompatibility issues including in vitro cytotoxicity, genotoxicity, in vitro cell models,

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biocompatibility data
and its related failure.
Chapter four
describes degradable
biomaterial for
medical implants,
which include
biodegradable
polymers,
biodegradable metals,
degradation
assessment
techniques and future
directions. Chapter

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five focuses on animal models for biomaterial research, ethics, care and use, implantation study and monitoring and studies on medical implants in animals in Indonesia. Chapter six covers biomimetic bioceramics, natural-based biocomposites and the latest research on natural-

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based biomaterials in
Indonesia. Chapter
seven describes
recent advances in
natural biomaterial
from human and
animal tissue, its
processing and
applications. Chapter
eight discusses
orthopedic
applications of
biomaterials focusing
on most common

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Materials in
Indonesia, and
surgical intervention
and implants. Chapter
nine describes
biomaterials in
dentistry and their
development in
Indonesia.

The main focus of
this book entitled is
to provide an up-to-
date coverage of

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marine sponges and their significance in the current era. This book is an attempt to compile an outline of marine sponge research to date, with specific detail on these bioactive compounds, and their pharmacological and biomedical applications. The book encompasses

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twenty chapters
covering various
topics related to
Marine Sponges.

Initial couple of
chapters deal about
the worldwide status
of marine sponge
research, the recent
findings regarding
dynamics of sponges,
and several
interesting research
areas, that are

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Marine to be deserving of increased attention. Variety of sponges, their toxicology, metagenomics, pharmaceutical significance and their possible applications in biomedicine has been discussed in detail. The second half of this part includes chapters on

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Marine chemical ecology of marine sponges followed by the discussion on importance of bioeroding sponges in aquaculture systems. The following four chapters of the book deal majorly with the chemical molecules of marine sponges. In the fifth chapter, marine sponge-

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actinobacteria and their physicochemical properties have been discussed followed by their bioactive potential. The biological application of marine sponges has been presented in later chapters with the classification of biologically active compounds being

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explored in detail.

The second half of
the book presents the
vast repertoire of

secondary

metabolites from

marine sponges,

which include

terpenoids,

heterocycles,

acetylenic

compounds, steroids

and nucleosides.

Further, the bioactive

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potential of these compounds has also been discussed. One of the constituent chapter elaborates the bioactive alkaloids from marine sponges namely, pyridoacridine, indole, isoquinolene, piperidene, quinolizidine, steroidal and bromotyrosine

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alkaloids isolated from them. In the next couple of chapters, important sponge polymers and the anticancer effects of marine sponge compounds have been presented. The most interesting aspect of sponge biology is their use in biomedical arena. An effort has been made

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in this book, to cover the major constituents of sponges and their biomedical potentials. The major portion of sponge body is composed of collagen and silica and used in tissue engineering as scaffold material. This part of the book compiles chapters delineating the

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isolation of sponge biomaterials including collagen and their use in medical diagnostics. Overall, this book would be an important read for novice and experts in the field of sponge biology.

This book provides a practical guide to the

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use and applications of inorganic biomaterials. It begins by introducing the concept of inorganic biomaterials, which includes bioceramics and bioglass. This concept is further extended to hybrid biomaterials consisting of inorganic and organic materials to mimic

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natural biomaterials.

The book goes on to provide the reader with information on biocompatibility, bioactivity and bioresorbability. The concept of the latter is important because of the increasing role resorbable biomaterials are playing in implant applications. The

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book also introduces
a new concept on
mechanical
compatibility -

'mechacompatibility'.

Almost all implant
biomaterials
employed to date,
such as metal and
ceramic implants, do
not meet this
biological
requirement as they
have far higher

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modulus than any biomaterials in the body. The practical techniques that are used in the characterization of biomaterials, including chemical, physical, biological, microscopy and mechanical characterization are described. Some specialised

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techniques are also introduced such as Synchrotron Micro-Computed Tomography (u-CT) and Magnetic Resonance Imaging (MRI). The reader is given important information on new biomaterials development for orthopaedic and other areas, including

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controlled release technology, hydroxyapatite and hybrid bioresorbable materials. Finally the book provides a guide to regulatory considerations, an area which is often overlooked, but is an important part of R&D and manufacturing of medical materials and

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**Biomaterials
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This book discusses
the current direction
of the research
approach to extreme
biomimetics through
biological materials-
inspired chemistry
and its applications in
modern technology
and medicine. It is a
resource covering
topics of extreme

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(psychrophilic and thermophilic) biomineralization, solvothermal and hydrothermal chemistry of metal oxides and nanostructured composites, and bioinspired materials science in a diverse areas. The authors review the current advances in the

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extreme biomimetics
research field and
describe various
approaches

introduced and
explored by their
respective
laboratories. •

Details the basic
principles of extreme
biomimetics approach
for design of new
materials and
applications; •

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Includes numerous examples of the hierarchical organization of hydrothermally or psychrophilically obtained biocomposites, structural bioscaffolds, biosculpturing, biomimetism, and bioinspiration as tools for the design of

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innovative materials;

- Describes and details the principles of extreme

biomimetics with

respect to

metallization of

chemically and

thermally stable

biopolymers.

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