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modification and
new application is

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properties used for
improvement of
bullet-proof vests
up to new
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used in medicine to
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nanocoated textile materials, there are certain distinct methodologies, including coating by the dispersion of well-defined nano-oxides, functionalisation by inorganic sol gel coating, the layer-by-layer deposition method and embedding the

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nanoparticles onto
the fibres' surfaces
by cross-linking
agents, such as
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the optical properties are determined by the energetic gap between molecular orbitals especially the highest occupied molecular orbital (HOMO) and lowest unoccupied molecular orbitals (LUMO).

Application of

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~~Amirhosein ...~~

~~nanosols~~

~~(especially silica~~

~~and titanium~~

~~dioxide sols) in the~~

~~field of textile~~

~~industry, including~~

~~the formation of~~

~~hydrophobic,~~

~~bioactive or~~

~~protective metallic~~

~~oxide coatings on~~

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Textiles by physical

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nanosols. Keywords

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properties

improvement.

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extensively used to
improve some
properties of
natural and
synthetic fibers
and fabrics.

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and other coupling

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agents/adhesion promoters is of tremendous contemporary interest because of their application in many and varied technologically important areas ranging from coatings to reinforced composites to dentistry to

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biomedical (e.g.,
for bonding
nucleotides to the
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chips"™). In
addition to their
traditional use for
bonding different

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This book provides
a broad

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Introduction to the
field of nanosol
application for
textile

functionalization, a
current ?hot? topic
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Besides a short
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antistatic coatings

and bioactive

coatings. An active

discussion is held

on the bioactive

modifications,

because this wide

and interesting

field offers a high

potential for many

new applications,

e.g. in medicine.

Besides basic

research, this book

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will also provide examples on the transition of academic research to customer products.

Functionalized nanomaterials have extremely useful properties, which can outperform their conventional

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because of their
superior chemical,
physical, and
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properties and
exceptional
formability. They
are being used for
the development
and innovation in a
range of industrial
sectors. However,
the use of

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functionalized
nanomaterials is
still in its infancy in
many industrial
settings.

Functionalized
nanomaterials
have the potential
to create cheaper
and more effective
consumer products
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could have adverse effects on the environment, human health, and safety, and their sustainability is questionable, if used incorrectly.

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nanomaterials in
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covers the

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Textiles For
enhancements in
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techniques and
processes, due to
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nanomaterials,
showing how they
substantially
improve the
performance of
existing
procedures, and
how they can
deliver exciting

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consumer products
more cheaply.

Emphasis is given
to greener

approaches,

leading to more
sustainable

products and
devices. The legal,
economical, and
toxicity aspects of
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nanomaterials are
also discussed in

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detail. Highlights established industrial applications of functionalized nanomaterials and discusses their future potential for a range of industrial sectors
Discusses how functionalized nanomaterials are being used to

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of commercial
products and
devices Assesses
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using

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out major safety
and regulatory
challenges

Smart Textiles:

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coverage of the
biofunctionality of
biopolymers in
textiles Explains
how antimicrobial
properties can
reduce odour,
extend the life of
textiles, and
provide numerous
medical benefits

Textiles have been
historically and

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Textiles traditionally used to make clothes, but even in ancient times there were technical textiles for making sails, tents, etc. Today, technical textiles are used in various industries for a host of purposes and applications. Recently, there have been exciting

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based on
graphene, CNTs
and other
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textiles for
batteries and
energy storage,
textiles as
substrates for

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tissue engineering,
and textiles for
O/W separation
have appeared in
the literature. All
this has been
possible through
adopting novel
ways for finishing
textiles, e.g., by
appropriate surface
modification
techniques, and
utilizing biomimetic

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has not only
revolutionized
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gel prepared metal
oxide (MO)

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(UHTC)-based

materials,

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photocatalysts

have been

discussed in detail

by the experts in

the field. The

usefulness of sol-

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gel materials as
active GRIN, as
textile finisher, and
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with water-
repellent and oil-
resistive properties
would be an
incentive for
researchers keen
to pursue the field.

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the elements

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today to cater the
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and apparels
including organic
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and biodegradable

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textile applications.
Similarly, many
innovative
methods to process
textile materials to
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sustainability in the
supply chain along
with various
processing
technologies to
manufacture textile
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examine the
different types of

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