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*Do you ever wonder
why size is so
important at the scale
of nanosystems? Do*

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you want to
understand the
fundamental

principles that govern
the properties of
nanomaterials? Do
you want to establish
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of nanoscience and
nanotechnology?
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written with you in

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*mind. Foundations
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Nanotechnology

*provides some of the
physical chemistry
needed to understand
why properties of
small systems differ
both from their
constituent molecular
entities and from the
corresponding bulk
matter. This is not a*

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book about

nanoscience and

nanotechnology, but

rather an exposition

of basic knowledge

required to

understand these

fields. The collection

of topics makes it

unique, and these

topics include: The

concept of quantum

confinement and its

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*consequences for
electronic behaviour*

(Part II) The

*importance of surface
thermodynamics for
activity and*

*interactions of
nanoscale systems*

*(Part III) The need to
consider fluctuations
as well as mean*

*properties in small
systems (Part IV) The*

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*interaction of light
with matter and
specific applications
of spectroscopy and
microscopy (Part V)*

*This book is written
for senior
undergraduates or
junior graduate
students in science or
engineering
disciplines who wish
to learn about or*

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work in the areas of nanoscience and nanotechnology, but who do not have the requisite background in chemistry or physics. It may also be useful as a refresher or summary text for chemistry and physics students since the material is focused on those

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aspects of quantum mechanics, thermodynamics, and statistical mechanics that specifically relate to the size of objects.

The study of materials is a major field of research that supports and drives innovation in technology. Using modern scientific

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*techniques, materials
scientists and
engineers explore and
manipulate materials,
and create new ones
with remarkable
strength and
extraordinary optical
and electrical
properties. In this
Very Short
Introduction,
Christopher Hall*

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*looks at a wide range
of materials, from
steel, wood, and
rubber, to gold,
silicon, and
graphene, describing
how materials are
used, how their
properties arise from
their internal
structure, and how
useful and novel
things are made from*

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*them. He concludes
by looking at how the
global scale of
materials
consumption now
threatens the goal of
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highly readable.

*Dielectric Elastomers
as Electromechanical
Transducers provides
a comprehensive and
updated insight into
dielectric elastomers;
one of the most
promising classes of
polymer-based smart
materials and
technologies. This
technology can be*

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used in a very broad range of applications, from robotics and automation to the biomedical field. The need for improved transducer performance has resulted in considerable efforts towards the development of devices relying on

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*materials with
intrinsic transduction
properties. These
materials, often
termed as “smart or
“intelligent , include
improved
piezoelectrics and
magnetostrictive or
shape-memory
materials. Emerging
electromechanical
transduction*

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*technologies, based
on so-called
ElectroActive*

*Polymers (EAP), have
gained considerable
attention. EAP offer
the potential for
performance
exceeding other smart
materials, while
retaining the cost and
versatility inherent to
polymer materials.*

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Within the EAP family, “dielectric elastomers”, are of particular interest as they show good overall performance, simplicity of structure and robustness.

Dielectric elastomer transducers are rapidly emerging as high-performance “pseudo-muscular

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actuators, useful for different kinds of tasks. Further, in addition to actuation, dielectric elastomers have also been shown to offer unique possibilities for improved generator and sensing devices. Dielectric elastomer transduction is enabling an

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*enormous range of
new applications that
were precluded to any
other EAP or smart-
material technology
until recently. This
book provides a
comprehensive and
updated insight into
dielectric elastomer
transduction,
covering all its
fundamental aspects.*

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The book deals with transduction principles, basic materials properties, design of efficient device architectures, material and device modelling, along with applications. Concise and comprehensive treatment for practitioners and academics Guides the

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engineering, and tech
nology—commonly*

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referred to collectively as nanotechnology—is believed by many to offer extraordinary economic and societal benefits.

Nanotechnology is generally defined as the ability to create and use materials, devices, and systems with unique

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*properties at the scale
of approximately 1 to
100 nm.*

*Nanotechnology
offers society the
promise of major
benefits, but also
raises questions of
potential adverse
effects. The first
volume covers pore
size in carbon-based
nano-adsorbents,*

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*resulting in materials
that exhibit unique
sorptive properties
with a general view of
the recent activities
on the study of pore
structure control. The
collection of topics in
volume 2 reflects the
diversity of recent
advances in
nanoelements
formation and*

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*interactions in
nanosystems with a
broad perspective that
will be useful for
scientists and
engineers as the use
of nanotechnology in
the consumer and
industrial sectors is
expected to increase
significantly in the
future. And the third
volume discusses*

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*important issues and
trends related to
research strategy in
mechanics of carbon
nanotubes.*

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Stonehenge
bluestones This book
shows how
archaeology and
science intersect and
feed off each other.
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techniques have
provided data which,
when set within a
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potential of

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understanding of this
biomimetic

technology, which is

in contrast to

traditional

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processes such as

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Biomimetics in

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the first monograph

to be devoted to

these materials. A

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framework for these processes is presented based on the concept of multi-scale structure of entropy and non-equilibrium thermodynamics, together with a detailed review of the available technology. The latter includes experimental, modeling, and

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simulation results
obtained on self-healing/lubricating/cleaning materials since their emergence in the past decade.

FOAM. This acronym has been used for over 75 years at Rensselaer to designate an upper-division course entitled, Foundations of Applied Ma-

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ematics. This course was started by George Handelman in 1956, when he came to Rensselaer from the Carnegie Institute of Technology. His objective was to closely integrate mathematical and physical reasoning, and in the process enable students to obtain a qualitative

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understanding of the world we live in.

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FOAM was soon taken over by a young faculty member, Lee Segel. About this time a similar course, Introduction to Applied Mathematics, was introduced by Chia-Ch'iao Lin at the Massachusetts Institute of Technology. Together

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Lin and Segel, with
help from
Handelman,
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Mathematics Applied
to - terministic
Problems in the
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This was originally
published in 1974,
and republished in

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1988 by the Society for Industrial and Applied Mathematics, in their Classics Series. This textbook comes from the author teaching FOAM over the last few years. In this sense, it is an updated version of the Lin and Segel textbook.

Fundamentals,
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physics with

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to the major
concepts that
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foundations of
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materials. The
main
foundational
principles are*

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*emphasized,
providing
students with
the knowledge
beginners in
the field
should
understand.
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structured in
four parts and
allows*

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*students to
appreciate how
the concepts
in this broad
area build
upon each
other to
produce a
cohesive whole
as they work
through the
chapters.*

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*Illustrations
work closely
with the text
to convey
concepts and
ideas
visually,
enhancing
student
understanding
of difficult
material, and*

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exercises
varying in
difficulty
allow students
to put into
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theory they
have covered
in each
chapter and
reinforce new*

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this Volume*

*"Conceptual
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Materials: A
standard model
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and excited-
state*

*properties" is
to present the*

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*theory that
are central to
the
understanding
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of materials
phenomena and
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*approaches and
highlight
their
applications
to the
structural
(ground state,
vibrational,
dynamic and*

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(thermodynamic,
etc.) and
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real materials
including
solids,

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studies of
emergent
properties
arising from
low-energy

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*electron
correlations
and*

*interactions
such as the
quantum Hall
effects, super
conductivity,
and other
cooperative
phenomena.*

Although some

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of the basics
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and models for
solids were
developed in
the early part
of the last
century by
figures such
as Bloch,
Pauli, Fermi,
and Slater,
the field of

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*electronic
structure
theory went
through a
phenomenal
growth during
the past two
decades,
leading to new
concepts, unde
rstandings,
and predictive*

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*capabilities
for
determining*

*the ground-
and excited-
state*

*properties of
real, complex
materials from
first*

principles.

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*theory can now
be used to
predict the
existence and
properties of
materials not
previously
realized in
nature or in
the
laboratory.*

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performed to
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process, to
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different*

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role in
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the authors*

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based dilute
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Concluding*

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