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**This open  
access book  
provides a  
broad context  
for the  
understanding**

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of current  
problems of  
science and of  
the different  
movements  
aiming to  
improve the  
societal impact  
of science and  
research. The  
author offers  
insights with  
regard to

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ideas, old and  
new, about  
science, and  
their  
historical  
origins in  
philosophy and  
sociology of  
science, which  
is of interest  
to a broad  
readership. The  
book shows that

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scientifically  
grounded  
knowledge is  
required and  
helpful in  
understanding  
intellectual  
and political  
positions in  
various  
discussions on  
the grand  
challenges of

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our time and  
how science  
makes impact on  
society. The  
book reveals  
why  
interventions  
that look good  
or even  
obvious, are  
often met with  
resistance and  
are hard to

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realize in  
practice. Based  
on a thorough  
analysis, as  
well as  
personal  
experiences in  
aids research,  
university  
administration  
and as a  
science  
observer, the

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author provides  
- while being  
totally open  
regarding  
science's  
limitations- a  
realistic  
narrative about  
how research is  
conducted, and  
how reliable  
'objective'  
knowledge is

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produced. His  
idea of  
science, which  
draws heavily  
on American  
pragmatism,  
fits in with  
the global Open  
Science  
movement. It is  
argued that  
Open Science is  
a truly and



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historically  
unique movement  
in that it  
translates the  
analysis of the  
problems of  
science into  
major  
institutional  
actions of  
system change  
in order to  
improve

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**academic**

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impact of  
science,  
engaging all  
actors in the  
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science and  
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**This new book  
discusses a  
selection of  
advanced topics**

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on carbon  
nanotubes—their  
extraordinary  
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nctionalization  
, carbon  
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nanocomposites,  
characterization, and,  
moreover, their  
utility in many  
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advanced CNT  
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automotive,

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specifically  
discusses the  
applications of  
carbon  
nanotubes for a  
greener

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environment, as well as applications for biomedical uses, in drug delivery, and in display technology. It also explores the uses of CNTs in the energy and aerospace

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industries,  
such as for  
solar energy  
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more. Other  
chapters  
explore the  
potential of



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nanotubes in

hydrogen

storage and

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The book

presents an

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International

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of LCA studies

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in the agri-  
food sector,  
both in terms  
of adopted  
methodologies  
and application  
to particular  
products; the  
final purpose  
is to  
characterise  
and put order  
within the

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methodological  
issues  
connected to  
some important  
agri-food  
products (wine,  
olive oil,  
cereals and  
derived  
products, meat  
and fruit) and  
also defining  
practical

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guidelines for  
the  
implementation  
of LCAs in this  
particular  
sector. The  
first chapter  
entails an  
overview of the  
application of  
LCA to the food  
sector, the  
role of the

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The other  
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with a  
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issues, the  
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they have been  
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suggestion of  
practical  
guidelines.

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and Pigments'  
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dyeing with  
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and pigments as



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with eco-safe  
synthetic dyes  
and chemicals.  
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editorial  
chapter on bio-  
mordants, bio-  
dyes and bio-

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finishes, a  
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natural dyes  
and pigments  
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natural  
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colour-based  
natural dyes

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and pigments,  
eco-safe  
synthetic dyes  
and chemicals,

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industry as  
well as to the  
future

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this field.

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Requirements in  
Various Global  
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Preventing  
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Ethics and  
Integrity in  
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through multiple  
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to be thinking  
about these



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concepts and  
applying them  
every day to do  
our jobs better.”

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the title but also  
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even more  
specifically  
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identifies the  
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best practices of



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for developing professional competencies and applied skills of life sciences researchers. The book examines what happens before the scientific paper is submitted for publication or the innovation

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becomes legally protected. This phase is the most neglected but most exciting in the process of scientific creativity and innovation. The author identifies twelve competencies of innovative

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from design to  
discovery that  
precedes  
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explanation of  
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innovation  
productivity in  
the life sciences  
Contains a variety  
of statistical  
databases and a

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biomedical  
research and  
reviews the  
performance of

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research labs and  
academic  
institutions

Written for  
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biomedicine,  
pharmaceutical  
science, life  
sciences, drug  
discovery,  
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Innovative



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Research in Life Sciences offers a guide to the creative processes leading to biomedical innovation and identifies the best practices of innovative scientists and laboratories. This book

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contains  
information for  
specialists in  
various fields of  
science. From the  
point of view of  
pharmacology,  
data are reported  
regarding the  
effect of  
echinochrome A  
and related  
metabolites from

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sea urchins on the survival and functional properties of stem cells, which can facilitate ex vivo application of this compound in medicine. For scientists who isolate and establish structures of

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marine natural compounds, an article devoted to the proof of the microbial origin of a typical metabolite earlier found exclusively from marine invertebrates, 6-epi-monanchorin, may also be of interest. A range

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of new marine metabolites was discovered from the both marine invertebrates and marine microorganisms, particularly in marine isolates of fungi. Some marine natural products could be applied to treat

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such diseases as Parkinson's disease, ischemic stroke, viral infections, and so on.

Magnificamide, a new peptide from sea anemones, inhibits porcine and human saliva amylases, showing its

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probable  
antidiabetic  
properties.  
Application of the  
genomic  
approach was  
discussed in  
studies on various  
marine bacteria,  
producing marine  
enzymes with  
unusual  
specificity. The

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lectins capable of recognizing glycoforms of different substrates demonstrate the possibility to be used to elaborate new medical diagnostics. Citizen science, the active participation of



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the public in scientific research projects, is a rapidly expanding field in open science and open innovation. It provides an integrated model of public knowledge production and engagement with

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science. As a growing worldwide phenomenon, it is invigorated by evolving new technologies that connect people easily and effectively with the scientific community.

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citizens' wishes to be actively involved in scientific processes, as a result of recent societal trends, it also offers contributions to the rise in tertiary education. In addition, citizen science provides

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a valuable tool for citizens to play a more active role in sustainable development.

This book identifies and explains the role of citizen science within innovation in science and society, and as a vibrant and

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productive science-policy interface. The scope of this volume is global, geared towards identifying solutions and lessons to be applied across science, practice and policy. The chapters consider

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the role of citizen science in the context of the wider agenda of open science and open innovation, and discuss progress towards responsible research and innovation, two of the most critical aspects of

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science today.

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Space Scientists

Innovative

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Strategies in Life

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Handbook on  
Intellectual  
Property and the  
Life Sciences

*Although the  
Bioequivalence (BE)  
requirements in many  
global jurisdictions  
have much in  
common, differences  
in certain approaches  
and requirements*



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*such as definitions  
and terms, choice of  
comparator  
(reference) product,  
acceptance criteria,  
fasted and fed  
studies, single and  
multi-dose studies,  
biowaivers and  
products not intended  
for absorption into  
the systemic*

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*circulation (locally  
acting medicines and  
dosage forms),  
amongst others,  
provide food for  
thought that  
standardisation  
should be a high  
priority objective in  
order to result in a  
harmonized  
international process*

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*for the market approval of products using BE. An important objective of Bioequivalence Requirements in Various Global Jurisdictions is to attempt to gather the various BE requirements used in different global*

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*jurisdictions to  
provide a single  
source of relevant  
information. This  
information from,  
Brazil, Canada,  
China, European  
Union, India, Japan,  
MENA, Russia South  
Africa, the USA and  
WHO will be of  
value to drug*

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*manufacturers,  
regulatory agencies,  
pharmaceutical  
scientists and related  
health organizations  
and governments  
around the world in  
the quest to  
harmonize regulatory  
requirements for the  
market approval of  
generic products.*

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*Tailoring of  
biomolecules using  
protein engineering  
technology, and host  
cells culture  
techniques are among  
the most sophisticated  
and elegant  
achievements of  
modern applied life  
sciences in which the  
basic fundamentals*

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*biotechnology are applicable for the development and manufacturing of biologics and other related bio-molecules for a hurdle free life with good health. A majority of biologics derived from genetically modified host cells in the*

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*current market are bio-formulation such as antibodies, nucleic acid products and vaccines. Such bio-formulations are developed mainly in two steps i.e. upstream process and downstream process. The first volume of this series begins with*



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*the latest information  
on how the classical  
stepwise host cells  
culture (mammals,  
animals, plants, and  
bacteria)  
methodology has  
been changed to fully  
continuous or  
partially continuous  
host cells culture  
process in order to*

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*economise the  
biopharmaceutical  
products  
manufacturing  
process. In addition  
this volume narrates  
a brief history on  
conceptual  
development of new  
thoughts in designing  
biotechnology  
industries for*

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*commercial*

*production of variety  
of therapeutic  
proteins with  
structural*

*modification on the  
basis of clinical  
requirements. The*

*readers will feel  
excited by going  
through the latest  
discovery and*

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*development in  
applied life sciences  
for designing  
innovative  
biomolecules for  
health care with  
utmost safe. The most  
interesting part of this  
volume is newly  
developed concept on  
bioprinting. It  
explains how to*

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*design and fabricate  
animate objects by  
fusing or depositing  
material of interest in  
the form of powders,  
solid dusts, metal,  
liquid or even living  
cells or tissues by  
layers to produce 3D  
objectives. The first  
volume ends with the  
latest information on*

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*the current trend in  
biologics market,  
market dynamic,  
drives, and  
opportunities with  
challenges.*

*Intellectual property  
(IP) is a key  
component of the life  
sciences, one of the  
most dynamic and  
innovative fields of*

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*technology today. At the same time, the relationship between IP and the life sciences raises new public policy dilemmas. The Research Handbook on Intellectual Property and the Life Sciences comprises contributions by*

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industry to provide in-  
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topics including  
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diagnostics and  
genes, plant  
innovations, stem  
cells, the role of  
competition law and  
access to medicines.*



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*The Research  
Handbook focuses on  
the relationship  
between IP and the  
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United States,  
complemented by  
country-specific case  
studies on Australia,  
Brazil, China, India,  
Japan, Kenya, South*

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*Africa and Thailand  
to provide a truly  
international  
perspective.*

*Mass spectrometry is  
a state-of-the-art tool  
for basic biological  
research and applied  
clinical diagnostics.*

*This book covers  
sample preparation  
for mass*

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*spectrometric analysis  
for proteomics,  
clinical studies, and  
food analysis. In  
addition, it explores  
possible directions for  
further developing  
the technology and its  
potential applications.*

*Open Science: the  
Very Idea*

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Pathways to  
Scientific Impact,  
Public Health  
Improvement, and  
Economic Progress*

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*Chemistry and  
Technology of  
Natural and Synthetic  
Dyes and Pigments*

This book  
examines the  
human  
explorers who  
are uncovering  
new  
information  
about space,

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whether they  
launch into  
space  
themselves or  
explore the  
cosmos through  
telescopes and  
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Common Core

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papers, which  
focus not only  
on the  
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chain reaction  
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effort to save  
species.

Mendel's Ark  
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ethical,  
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of using these  
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wildlife  
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Drawing upon  
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The use of

biotechnology

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will thus have  
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will shape the  
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ethics of our  
desire to  
restore lost  
worlds.



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Scientific arguments—and indeed arguments in most disciplines—depend on visuals and other nontextual elements; however, most models of

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argumentation  
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neglect these  
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Assembling  
Arguments,  
Jonathan Buehl  
offers a  
concentrated  
study of  
scientific

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argumentation  
that is  
sensitive to  
both the  
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of multimodal  
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to understand  
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for developing  
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multimodal  
rhetoric  
applicable  
across fields.  
In developing  
these claims,  
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comprehensive  
account of  
scientific  
persuasion as  
a multimodal

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process and  
develops a  
simple but  
productive  
framework for  
analyzing and  
teaching  
multimodal  
argumentation.  
Comprising  
five case  
studies, the

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book provides  
detailed  
treatments of  
argumentation  
in specific  
technological  
and historical  
contexts:  
argumentation  
before World  
War I, when  
images



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circulated by  
hand and by  
post;  
argumentation  
during the mid-  
twentieth  
century, when  
computers were  
beginning to  
bolster  
scientific  
inquiry but

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images

remained hand-  
crafted

products; and  
argumentation  
at the turn of  
the twenty-  
first

century—an era  
of digital  
revolutions  
and digital

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fraud. Each study examines the rhetorical problems and strategies of specific scientists to investigate key issues regarding visualization and argument:

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1)

establishing  
new  
instruments as  
reliable  
sources of  
visual  
evidence; 2)

creating novel  
arguments from  
reliable  
visual

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evidence; 3)  
creating novel  
arguments with  
unreliable  
visual  
evidence; 4)  
preserving the  
credibility of  
visualization  
practices; and  
5) creating  
multimodal

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artifacts  
before and in  
the era of  
digital  
circulation.  
Given the  
growing  
enterprise of  
rhetorical  
studies and  
the field's  
contributions

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to

communication  
practices in  
all  
disciplines,  
rhetoricians  
need a  
comprehensive  
rhetoric of  
science—one  
that accounts  
for the

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multimodal  
arguments that  
change our  
relation to  
reality.

Assembling  
Arguments  
argues that  
such rhetoric  
should enable  
the  
interpretation



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Paper

of visual  
scientific  
arguments and  
improve scienc  
e-writing  
instruction.

Functionalizat  
ion and

Potential

Applications

Mass Intellect  
uality and

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Democratic  
Leadership in  
Higher  
Education  
Personalizing  
Precision  
Medicine  
Arms Control  
and  
Disarmament as  
the Sciences  
Converge

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How Culture  
Transformed  
the Human  
Brain

Mendel's Ark

*From 2013 to 2015,  
over 11,000 people  
across West Africa lost  
their lives to the  
deadliest outbreak of  
the Ebola virus in  
history. Crucially, this  
epidemic marked the*

*first time the virus was able to spread beyond rural areas to major cities, overturning conventional assumptions about its epidemiology. With backgrounds ranging from development to disease control, the contributors to this volume - some of them based in countries affected by the Ebola*

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*epidemic - consider the underlying factors that shaped this unprecedented outbreak. While championing the heroic efforts of local communities and aid workers in halting the spread of the disease, the contributors also reveal deep structural problems in both the countries and*

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*humanitarian agencies involved, which hampered the efforts to contain the epidemic. Alarming, they show that little has been learned from these events, with health provision remaining underfunded and poorly equipped to deal with future outbreaks. Such issues, they argue, reflect the wider*

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*challenges we face in  
tackling epidemic  
disease in an  
increasingly  
interconnected world.  
This book provides new  
insights into how new  
biology, and the  
emergence of  
"translational" policies  
to drive the health  
bioeconomy, is  
reshaping the  
innovation ecosystem*

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*for new therapies. A key argument is that a broader definition of value (beyond the economic aspects) is needed to understand health innovation in the twenty-first century.*

*A Hands-On Approach to Teaching*

*Introductory*

*Statistics Expanded with over 100 more pages,*

*Introduction to*



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*Statistical Data  
Analysis for the Life  
Sciences, Second  
Edition presents the  
right balance of data  
examples, statistical  
theory, and computing  
to teach introductory  
statistics to students in  
the life sciences. This  
popular textbook covers  
the m*

*This book provides an  
overview of the global*

*pharmaceutical pricing policies. Medicines use is increasing globally with the increase in resistant microbes, emergence of new treatments, and because of awareness among consumers. This has resulted in increased drug expenditures globally. As the pharmaceutical market is expanding, a variety*

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*of pharmaceutical pricing strategies and policies have been employed by drug companies, state organizations and pharmaceutical pricing authorities.*

*Selected Papers from the 3rd International Symposium on Life Science*

*A Scientist's Guide to Life's Biggest*

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*Questions*

*Molybdenum-99 for*

*Medical Imaging*

*Understanding West*

*Africas Ebola Epidemic*

*Innovation,*

*Commercialization, and*

*Start-Ups in Life*

*Sciences*

This handbook

pursues an

integrated

communication

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approach. Drawing on the various fields of organizational communication and their relevance for CSR, it addresses innovative topics such as big data, social media, and the convergence of communication channels, as well as

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the roles they play in a successfully integrated CSR communication program. Further aspects covered include the analysis of sector-specific, cross-cultural, and ethical challenges related to the effective

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communication of CSR. This handbook is unique in its consistent focus on integrated communication. It is of interest not only for the scientific discourse, but will also benefit those corporations that not only seek to

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operate in a socially responsible manner, but also to communicate their efforts to their various stakeholders.

Besides its significant value for researchers and professionals, the book can also be



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used as a reference for undergraduate and graduate students interested in successful CSR communication.

Fake Evidence examines the scientific evidence offered in evolution-creation court cases from the State of

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Tennessee v. John Thomas Scopes in 1925 to Kitzmiller v. Dover Area School District in 2005. The validity of the different types of evidence is tested against the current ideas in the scientific literature. Much of the

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evidence offered in the past would not be offered in such a case if held today.

The first chapter of the book looks at court evidence in light of the nature of science. Court cases have been decided based on fingerprints,

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handwriting  
samples, DNA, etc.  
only to be  
overturned later.  
Why are evolution  
cases allowed to  
stand when the  
evidence used in the  
trial is no longer  
valid? The State of  
Tennessee v. John  
Thomas Scopes is

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the first evolution-creation case. It is discussed in chapter two. Because of its well-known attorneys, Clarence Darrow and William Jennings Bryan, it attracted national attention. In this trial, a hoax like the Piltdown Man was

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offered as evidence for the proof of evolution. Chapter three moves ahead to the 1960s and considers Epperson v. Arkansas that declared laws forbidding the teaching of evolution as unconstitutional.

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This case is also considered in light of two other court cases decided that decade--Engel v. Vitale that removed state-initiated prayers in the classroom and Abington School District v. Schempp that ruled against a

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daily Bible reading in school. How were these cases similar? Since evolution had to be taught, efforts were made to have evolution and creation taught side by side. These efforts brought about two court cases--McLean v.



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Arkansas Board of  
Education and  
Edwards v.  
Aguillard. McLean  
v. Arkansas Board  
of Education dealt  
with an Arkansas  
law and was decided  
in the United States  
District Court for  
the Eastern District  
of Arkansas and

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was limited to that region. Edwards v. Aquillard was a similar law passed in Louisiana which was appealed all the way to the United States Supreme Court. The justices declared the teaching of scientific

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creationism was religious teaching and thus unconstitutional. The final case that is examined in this work is *Kitzmiller v. Dover Area School District*. The school board in Dover, Pennsylvania wanted to see its

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students become aware of intelligent design. A good deal of this case centered on showing that intelligent design is religious teaching so that the judge could rule against it based on the earlier court cases against a religious view

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being taught in public schools. Fake Evidence closes with a look at some of the view expressed against religion in *Kitzmiller v. Dover Area School District* and the dangers found in those views. The book also contains several

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appendices,  
including one on  
"The Fruits of  
Evolution."

The author uses  
decades of  
experience and  
interviews with  
experts in precision  
medicine to explain  
past, present, and  
future of precision

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medicine. She reviews the full continuum of personalizing precision medicine, including diagnostics, therapeutics, big data, supportive care, regulation, and reimbursement and innovation in

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precision medicine  
worldwide. •

Combines a unique  
cross section of  
history, current  
technologies, and  
future directions for  
how precision  
medicine has and  
will affect people  
worldwide •

Reviews precision



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medicine around the world, including the US, China, Japan, the Middle East, India, Europe, and Latin America •

Discusses a number of diseases areas – cancer, cardiovascular, neurodegenerative, infectious disease,

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pain, immunology,  
rare diseases •

Includes

information and  
quotes from over  
100 interviews with  
key industry experts  
in biotech, pharma,  
informatics,  
diagnostics, health  
providers, advocacy  
groups, and more. •

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Includes stories  
illustrating current  
issues and future  
promises in  
precision medicine  
for a human touch  
This book develops  
a general theory of  
autonomous  
teaching by  
examining a  
mysterious

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educational idea:  
the teachable  
moment. By  
formulating an  
understanding of  
the teachable  
moment as  
predicated upon  
'educational  
energy,' this book  
takes up John  
Dewey's view of

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teaching to  
articulate a law-like,  
scientifically  
oriented  
pedagogical theory.  
By offering a  
testable hypothesis  
about effective  
teaching through an  
innovative reading  
of Dewey's law, this  
book also provides

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insights into  
changes in school  
practice and  
schooling policy  
consonant with an  
understanding of  
teaching as a  
science.

Existential Physics  
Case Studies,  
Methodological  
Issues and Best

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Practices

Rewriting

Discourses of

Illness and

Disability

Innovation in Open

Science, Society and

Policy

Carbon Nanotubes

Pharmaceutical

Prices in the 21st

Century

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What makes human consciousness unique? John Parrington draws on early Russian ideas and the latest neuroscience to argue that humans went through a 'mind shift' when we developed language, and words and the shared cultural world they enabled



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altered our brains,  
and have shaped  
them ever since.  
The decay product  
of the medical  
isotope  
molybdenum-99  
(Mo-99),  
technetium-99m  
(Tc-99m), and  
associated medical  
isotopes iodine-131  
(I-131) and  
xenon-133 (Xe-133)

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are used worldwide for medical diagnostic imaging or therapy. The United States consumes about half of the world's supply of Mo-99, but there has been no domestic (i.e., U.S.-based) production of this isotope since the late 1980s. The

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United States imports Mo-99 for domestic use from Australia, Canada, Europe, and South Africa. Mo-99 and Tc-99m cannot be stockpiled for use because of their short half-lives. Consequently, they must be routinely produced and delivered to medical

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imaging centers.

Almost all Mo-99 for medical use is produced by irradiating highly enriched uranium (HEU) targets in research reactors, several of which are over 50 years old and are approaching the end of their operating lives.

Unanticipated and

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extended

shutdowns of some of these old reactors have resulted in severe Mo-99 supply shortages in the United States and other countries.

Some of these shortages have disrupted the delivery of medical care.

Molybdenum-99 for

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Medical Imaging examines the production and utilization of Mo-99 and associated medical isotopes, and provides recommendations for medical use. Including considerations of sustainability in universities' activities has long

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since become  
mainstream.

However, there is  
still much to be  
done with regard to  
the full integration  
of sustainability  
thinking into  
science and  
engineering  
curricula. Among  
the problems that  
hinder progress in  
this field, the lack of

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sound information on how to actually implement it is prominent. Created in order to address this need, this book presents a wealth of information on innovative approaches, methods and tools that may be helpful in translating sustainability



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principles into  
practice.

The concepts and  
techniques  
presented in this  
volume originated  
from the fields of  
dynamics, statistics,  
control theory,  
computer science  
and informatics, and  
are applied to novel  
and innovative real-  
world applications.

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Over the past few decades, the use of dynamic systems, control theory, computing, data mining, machine learning and simulation has gained the attention of numerous researchers from all over the world. Admirable scientific projects using both

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model-free and  
model-based  
methods coevolved  
at today's research  
centers and are  
introduced in  
conferences around  
the world, yielding  
new scientific  
advances and  
helping to solve  
important real-world  
problems. One  
important area of

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progress is the bioeconomy, where advances in the life sciences are used to produce new products in a sustainable and clean manner. In this book, scientists from all over the world share their latest insights and important findings in the field. The

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majority of the  
contributed papers  
for this volume were  
written by  
participants of the  
3rd International  
Conference on  
Dynamics, Games  
and Science, DGSIII,  
held at the  
University of Porto  
in February 2014,  
and at the Berkeley  
Bioeconomy

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Conference at the University of California at Berkeley in March 2014. The aim of the project of this book "Modeling, Dynamics, Optimization and Bioeconomics II" follows the same aim as its companion piece, "Modeling,

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Dynamics,  
Optimization and  
Bioeconomics I,"  
namely, the  
exploration of  
emerging and  
cutting-edge  
theories and  
methods for  
modeling,  
optimization,  
dynamics and  
bioeconomy.  
Computer Science

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and Applications

Multimodal Rhetoric

and Scientific

Discourse

The New Health

Bioeconomy

Memoirs of Well-

Being

Proceedings of the

2014 Asia-Pacific

Conference on

Computer Science

and Applications

(CSAC 2014),



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Shanghai, China,  
27-28 December  
2014

Final Draft Level 3  
Student's Book

***This important  
volume covers  
ethics and  
integrity in  
health and life  
sciences  
research. It  
addresses  
concerns in gene***

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***editing, dual  
use and misuse  
of  
biotechnologies,  
big data and  
nutritional  
science in  
health and  
medicine, and  
covers attempts  
at ensuring  
ethical  
practices in  
such fields are***

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***shared internationally. As the body politics of life writing in the United States change, illness and disability memoirs receive considerable attention. Although these narratives are framed by a lack***

*of health, they  
abundantly  
present health  
and do so beyond  
its binary  
relationship to  
the  
pathological.  
This book  
departs from  
previous  
scholarship by  
bringing into  
focus the*

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**writers'  
representations  
of cure,  
recovery, and  
healing as well  
as their  
reluctance to  
bring closure to  
their narratives  
and align their  
stories with  
traditional  
notions of  
health. These**

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*memoirs thus  
partake in the  
construction of  
alternative  
narratives of  
illness and  
disability.  
What does it  
take to be an  
inventor?  
Judging by the  
ingenious  
individuals who  
have come into*

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***The Life  
Scientific  
studio in the  
last eight  
years, there is  
no simple  
answer.***

***Mathematicians,  
electricians,  
molecular  
biologists and  
mechanics can  
all transform  
lives. Some***

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*think with their hands, others make things in their minds. Most have a vision of the future. All are driven by a passionate determination to solve problems. These intimate accounts, based on interviews*



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***recorded for the  
popular BBC  
Radio 4  
programme The  
Life Scientific,  
chart the life  
journeys of  
scientists and  
engineers  
working in  
Britain today  
from childhood  
interests to  
innovation.***

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***Explaining what they did when and why, they make science seem straightforward and exciting, revealing moments of disappointment, creativity, frustration and joy. The result is an***

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*illuminating  
collection of  
biographical  
short stories  
that make  
scientists and  
the work they do  
accessible to us  
all.*

*Higher education  
in the UK is in  
crisis. The idea  
of the public  
university is*

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*under assault,  
and both the  
future of the  
sector and its  
relationship to  
society are  
being gambled.  
Higher education  
is increasingly  
unaffordable,  
its historic  
institutions are  
becoming  
untenable, and*

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*their purpose is  
resolutely  
instrumental.*

*What and who  
have led us to  
this crisis?*

*What are the  
alternatives? To  
whom do we look  
for leadership  
in revealing  
those*

*alternatives?*

*This book*

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***critically  
analyses  
intellectual  
leadership in  
the university,  
exploring  
ongoing efforts  
from around the  
world to create  
alternative  
models for  
organizing  
higher education  
and the***

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*production of  
knowledge. Its  
authors offer  
their experience  
and views from  
inside and  
beyond the  
structures of  
mainstream  
higher  
education, in  
order to reflect  
on efforts to  
create*

***alternatives. In  
the process the  
volume asks: is  
it possible to  
reimagine the  
university  
democratically  
and  
cooperatively?  
If so, what are  
the implications  
for leadership  
not just within  
the university***



*but also in terms of higher education's relationship to society? The authors argue that mass higher education is at the point where it no longer reflects the needs, capacities and longterm*

*interests of  
global society.  
An alternative  
role and purpose  
is required,  
based upon 'mass  
intellectuality'  
or the real  
possibility of  
democracy in  
learning and the  
production of  
knowledge.  
Governing*

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***Biodiversity  
through  
Democratic  
Deliberation  
PRIME FEB MAR  
2014***

***Towards a  
Political  
Economy  
The Life  
Scientific:  
Inventors  
Innovative  
Research in Life***

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**Sciences  
Critical and Cro  
ss-Disciplinary  
Perspectives**

The life and  
chemical sciences  
are in the midst of a  
period of rapid and  
revolutionary  
transformation that  
will undoubtedly  
bring societal

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benefits but also  
have potentially  
malign applications,  
notably in the  
development of  
chemical weapons.  
Such concerns are  
exacerbated by the  
unstable  
international security  
environment and the  
changing nature of

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armed conflict,  
which could fuel a  
desire by certain  
States to retain and  
use existing  
chemical weapons,  
as well as increase  
State interest in  
creating new  
weapons; whilst a  
broader range of  
actors may seek to

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employ diverse toxic chemicals as improvised weapons. Stark indications of the multi-faceted dangers we face can be seen in the chemical weapons attacks against civilians and combatants in Iraq and Syria, and also

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in more targeted  
chemical  
assassination  
operations in  
Malaysia and the  
UK. Using a multi-  
disciplinary  
approach, and  
drawing upon an  
international group  
of experts, this book  
analyses current and



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likely near-future  
advances in relevant  
science and  
technology,  
assessing the risks of  
their misuse. The  
book examines the  
current capabilities,  
limitations and  
failures of the  
existing international  
arms control and

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disarmament  
architecture –  
notably the  
Chemical Weapons  
Convention – in  
preventing the  
development and use  
of chemical  
weapons. Through  
the employment of a  
novel Holistic Arms  
Control

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methodology, the authors also look beyond the bounds of such treaties, to explore the full range of international law, international agreements and regulatory mechanisms potentially

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applicable to  
weapons employing  
toxic chemical  
agents, in order to  
develop  
recommendations  
for more effective  
routes to combat  
their proliferation  
and misuse. A  
particular emphasis  
is given to the roles

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that chemical and  
life scientists, health  
professionals and  
wider informed  
activist civil society  
can play in  
protecting the  
prohibition against  
poison and chemical  
weapons; and in  
working with States  
to build effective

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and responsive  
measures to ensure  
that the rapid  
scientific and  
technological  
advances are  
safeguarded from  
hostile use and are  
instead employed for  
the benefit of us all.  
“Stimulating . . .  
encourage[s] readers

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to push past well-trod assumptions [...] and have fun doing so.” —Science

Magazine

“Hossenfelder is a rare gem. There are other theoretical physicists out there who can write for a popular audience, but very few of them

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are able to do so in such a no-nonsense way. The result is not just illuminating, but enjoyable.”

—Charles Seife,  
author of *Decoding the Universe* From  
renowned physicist  
and creator of the  
YouTube series  
“Science without the



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Gobbledygook,” a book that takes a no-nonsense approach to life’s biggest questions, and wrestles with what physics really says about the human condition Not only can we not currently explain the origin of the universe, it is

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questionable we will  
ever be able to  
explain it. The  
notion that there are  
universes within  
particles, or that  
particles are  
conscious, is  
ascientific, as is the  
hypothesis that our  
universe is a  
computer simulation.

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On the other hand,  
the idea that the  
universe itself is  
conscious is difficult  
to rule out entirely.  
According to Sabine  
Hossenfelder, it is  
not a coincidence  
that quantum  
entanglement and  
vacuum energy have  
become the go-to

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Paper

explanations of  
alternative healers,  
or that people  
believe their  
deceased  
grandmother is still  
alive because of  
quantum mechanics.  
Science and religion  
have the same roots,  
and they still tackle  
some of the same

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questions: Where do we come from? Where do we go to? How much can we know? The area of science that is closest to answering these questions is physics. Over the last century, physicists have learned a lot about

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which spiritual ideas are still compatible with the laws of nature. Not always, though, have they stayed on the scientific side of the debate. In this lively, thought-provoking book, Hossenfelder takes on the biggest questions in physics:

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Does the past still exist? Do particles think? Was the universe made for us? Has physics ruled out free will? Will we ever have a theory of everything? She lays out how far physicists are on the way to answering

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these questions,  
where the current  
limits are, and what  
questions might well  
remain  
unanswerable  
forever. Her book  
offers a no-nonsense  
yet entertaining take  
on some of the  
toughest riddles in  
existence, and will



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give the reader a solid grasp on what we know—and what we don't know.

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problems at different spatial, temporal, and organizational scales. The mathematics necessary to describe, model, and analyze these problems is similarly diverse, incorporating quantitative

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techniques that are rarely taught in standard undergraduate courses. This textbook provides an accessible introduction to these critical mathematical concepts, linking them to biological observation and

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theory while also  
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of large-scale  
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from Vision to

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R&D Policy and  
Innovation for the  
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Digital Health  
Teachable Moments  
and the Science of  
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Innovation is a  
translation of a new  
method, idea, or  
product into reality

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and profit. It is a process of connected steps that accumulates into a brand reputation required for success. Unlike Fortune 500 companies, whose projects are self-funded, a start-up must simultaneously have a value proposition that attracts a customer

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(for revenue), investors (for capital), and acquirers (for a liquidity event or IPO). A high percentage of start-ups fail before attaining positive cashflow, due to a variety of reasons that are detailed in this book. Avoiding the pitfalls and wrong turns are the goals of this book. Innovation,

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Commercialization, and Start-Ups in Life Sciences details the methodologies necessary to create a successful life science start-up from initiation to exit.

Written by an expert who has worked with more than 500 life science start-ups, this book discusses specific processes and investor

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milestones that must be navigated to align customer, funder, and acquirer needs.

Successful commercialization requires attention to multiple constituents, such as investors, regulators, and customers. Investors require liquidity for their return, which is achieved through

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selling their stock in a public or private sale. The reader will gain an appreciation for the necessary data, partnerships, and skills needed to create a competitive and sustainable company. The author discusses such specific issues as customer problems, demonstrating sales access, and ensuring



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intellectual property is impervious to competitive advancement. This book is intended to be suitable for entrepreneurs, venture capitalists, and investors in both business and academic settings. These organizations have specific departments, such as R&D,

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Focuses specifically on life science start-ups

Examines how to determine a company valuation and future "fundable milestones"

Explores how to align regulatory and clinical

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strategies Discusses intellectual property derived from a university or individual through formation to exit. Reviews how start-ups must simultaneously meet the needs of multiple constituencies at once: investors, regulators, customers and exit candidates James F. Jordan is an

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well as digital  
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a range of compelling  
issues about the  
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and economic inequalities. Lupton considers how self-tracking devices change the patient-doctor relationship, and how the digitisation and gamification of healthcare through apps and other software affects the way we perceive and respond to our bodies.



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She asks which commercial interests enable different groups to communicate more widely, and how the personal data generated from digital encounters are exploited. Considering the lived experience of digital health technologies, including their emotional and

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