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This volume is important because
despite various external representations,

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such as analogies, metaphors, and visualizations being commonly used by physics teachers, educators and researchers, the notion of using the pedagogical functions of multiple representations to support teaching and learning is still a gap in physics

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education. The research presented in the three sections of the book is introduced by descriptions of various psychological theories that are applied in different ways for designing physics teaching and learning in classroom settings. The following chapters of the book illustrate

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teaching and learning with respect to applying specific physics multiple representations in different levels of the education system and in different physics topics using analogies and models, different modes, and in reasoning and representational competence. When

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multiple representations are used in physics for teaching, the expectation is that they should be successful. To ensure this is the case, the implementation of representations should consider design principles for using multiple representations. Investigations regarding

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their effect on classroom communication as well as on the learning results in all levels of schooling and for different topics of physics are reported. The book is intended for physics educators and their students at universities and for physics teachers in schools to apply

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multiple representations in physics in a productive way.

It is difficult to believe that our planet has been weaponized before our very eyes, but that is exactly what has happened.

First, we were seduced by the convenience of a wireless world; then,

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atmospheric weather experimentation in the guise of carbons “ climate change ” converted the air we breathe into an antenna. Now, the geo-engineering we ’ ve been subjected to for two decades is being normalized as the “ Star Wars ” Space Fence rises around and

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within us. Is this the Space Age we were promised?

This unique volume captures the content of the XXXth International Workshop on High Energy Physics. The scope of this volume is much wider than just high-energy physics; it actually concerns and

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includes materials from all the most fundamental areas of modern physics research: high-energy physics proper, gravitation and cosmology. Presentations embrace both theory and experiment.

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Horváth) Standard Model Physics
Results from ATLAS and CMS (Milos
Dordevic) Top Quark Physics in ATLAS
(Carolina Gabaldon) Panel Discussion I:
Higgs Boson and Related Topics (Dmitri
Kazakov, Dezso Horvath, Lydia Roos,
Milos Dordevic, Yury Kolomensky and

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Maxim Titov) SUSY Searches at CMS
(Pedrame Bargassa) Exotica Searches
(Daniel Teyssier) SUSY and Exotica
Searches in ATLAS (R Stamen) Rare
Decays at the LHCb Experiment (L
Pescatore) Electroweak Processes in Laser-
Boosted Lepton Collisions (S J M ü ller,

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C H Keitel and C M Müller) Backgrounds
and Calorimetry at Future Linear e+e-
Colliders (O Markin) Status of Fast
Interaction Trigger for ALICE Upgrade
(T L Karavicheva, A B Kurepin and W H
Trzaska) TOTEM Results on Elastic
Scattering and Total Cross-Section (Jan

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Kašpar) Diffractive Physics with
ATLAS (A Sidoti) Diffraction Physics
with ALICE at the LHC (Sergey
Evdokimov) Low x and Diffraction at
HERA (Alice Valkárová) Vector
Meson Production in Ultra-Peripheral
Collisions at the LHC (L Jenkovszky, A

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Salii and V Libov) The Interaction
Region of High Energy Protons (I M
Dremin) Panel Discussion II: Diffraction
(Vladimir Petrov, Johan Blouw, Igor
Dremin, Jan Kaspar, Antonio Sidoti and
Alice Valkarova) QCD Results from
ATLAS and CMS (M

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Leyton) Perturbative QCD at HERA (L
K Gladilin) Probing the QCD Phase
Boundary with Fluctuations of
Conserved Charges (Kenji
Morita) Exotic Hadron States (Wei
Chen, J Ho, T G Steele, R T Kleiv, B
Bulthuis, D Harnett, T Richards and Shi-

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Lin Zhu)Recent Results of the BES-III
Experiment (Yury Nefedov)Baryon
Spectroscopy from the Analysis of the
Meson Photoproduction Data (A V
Sarantsev)Panel Discussion III: Heavy
Quarks and Hadron Spectroscopy (Yury
Khokhlov, Wei Chen, Andrey Sarantsev,

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Anatoly Likhoded, Yury Nefedov and
Yury Kolomensky) How Far Can a
Pragmatist Go into Quantum Theory? A
Critical View of Our Current
Understanding of Quantum Phenomena
(A S Sanz) Half a Century with
QUARKS (A Superficial Review) (V A

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Petrov) Direct Photon and Neutral Pion
Production in pp and Pb – Pb Collisions
Measured with the ALICE Experiment at
LHC (D Peressounko) Strongly
Interacting Matter at RHIC:
Experimental Highlights (V A
Okorokov) Suppression of high p_T

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Hadrons at Midrapidity in Central
Heavy Ion Collisions from PHENIX (V
Bumazhnov) Origin of Temperature of
Quark-Gluon Plasma in Heavy Ion
Collisions (Xiao-Ming Xu) Panel
Discussion IV: Phenomena in Heavy Ion
Collisions (Serguei Sadovsky, Johan

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Blouw, Vitaly Okorokov, Vladimir
Bumazhnov, Xiao-Ming Xu and Dmitri
Peresunko)CP Violation Measurements
at the LHCb Experiment (L
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(M M Shapkin)Nonzero μ 13 and CP
Violation from Broken μ –

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Symmetry with $m_1 = 0$ (Asan
Damanik) The Hyper-Kamiokande
Project (Akira Konaka) Supernova
Detection at Super-Kamiokande (M
Ikeda) Recent Results of OPERA: Search
for μ Oscillations (T
Omura) Search for μ e

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Oscillations with the OPERA

Experiment (S G Zemskova) Search for

Heavy Neutrino in the $K^+ \rightarrow \mu^+ + H$

Decay (A T Shaikhiev) NO ν A Neutrino

Experiment (Filip Jediny) The Flavor

Ratio of the TeV-PeV Neutrinos in

IceCube (Sergio Palomares-Ruiz) Panel

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Discussion V: Neutrino Physics
(Vladimir Obraztsov, Akira Konaka,
Motoyasu Ikeda, Filip Jediny, Evgeny
Shirokov, Oleg Kalekin and Sergio
Palomares-Ruiz) The Pierre Auger
Observatory: Latest Results and Future
Prospects (F Arqueros) Measurement of

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the Muon Content of EAS with the
Pierre Auger Observatory (J C
Espadanal) Cosmic-Ray Research with
AMS-02 on the International Space
Station (H Gast) Panel Discussion VI:
Cosmic Rays (Alexander Kisselev,
Fernando Arqueros, Henning Gast and

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Vladimir Solovov) Paradoxes of the
Cosmological Physics in the Beginning
of the 21-st Century (Yu V Baryshev) On
the Average Thermal Evolution of the
Universe (Natacha Leite and Alex H
Blin) Strong Thermal Leptogenesis: An
Exploded View of the Low Energy

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Neutrino Parameters in the
SO(10)-Inspired Model (Luca
Marzola) Gravidynamics (Scalar-Tensor
Gravitation) and the Observed Discrete
Mass Spectrum of Compact Stellar
Remnants in Close Binary Systems (V V
Sokolov) Cosmological Consequences of

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the Relativistic Theory of Gravitation
(Yu V Chugreev and K A Modestov) B-
Mode in CMB Polarization. What's That
and Why It is Interesting (A D
Dolgov) Panel Discussion VII:
Cosmology (Valery Kiselev, Yuri
Baryshev, Alex H Blin, Luca Marzola,

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Alexander Dolgov and Vladimir Sokolov) Readership: Advanced undergraduates and graduate students, and physicists working in the field of high energy physics. Keywords: Higgs Boson; Quark – Gluon Plasma; Neutrino in Labs and the

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Cosmos;Cosmology;Dark Matter;Heavy Quarks;Hadron Spectroscopy;Cosmic Rays

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engineering, the arts, and mathematics--the STEAM subjects. Chapters emphasize the critical importance of current and emerging digital technologies in bringing STEM education up to speed and implementing changes to

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curricula at the classroom level. Of particular interest are the diverse ways of integrating the liberal arts into STEM course content in mutually reshaping humanities education and scientific education. This framework and its many

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instructive examples are geared to ensure that both educators and students can become innovative thinkers and effective problem-solvers in a knowledge-based society. Included in the coverage: Reconceptualizing a college science learning experience in

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the new digital era. Using mobile devices to support formal, informal, and semi-formal learning. Change of attitudes, self-concept, and team dynamics in engineering education. The language arts as foundational for science, technology, engineering,

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administrators, and education policymakers with curricular and pedagogical strategies for making STEAM education the bedrock of accessible, relevant learning in keeping with today's digital advances.

The aim of this book is to present

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a range of analytical methods that can be used in formulation design and development and focus on how these systems can be applied to understand formulation components and the dosage form these build. To effectively design and exploit

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drug delivery systems, the underlying characteristic of a dosage form must be understood--from the characteristics of the individual formulation components, to how they act and interact within the formulation, and finally, to how

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this formulation responds in different biological environments. To achieve this, there is a wide range of analytical techniques that can be adopted to understand and elucidate the mechanics of drug delivery and drug formulation. Such methods

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include e.g. spectroscopic analysis, diffractometric analysis, thermal investigations, surface analytical techniques, particle size analysis, rheological techniques, methods to characterize drug stability and release, and biological analysis in

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appropriate cell and animal models. Whilst each of these methods can encompass a full research area in their own right, formulation scientists must be able to effectively apply these methods to the delivery system they are considering. The

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information in this book is designed to support researchers in their ability to fully characterize and analyze a range of delivery systems, using an appropriate selection of analytical techniques. Due to its consideration of regulatory

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approval, this book will also be suitable for industrial researchers both at early stage up to pre-clinical research. How does the scientific enterprise really work to illuminate the origins of life and the universe itself? The quest to

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understand our universe, how it may have originated and evolved, and especially the conditions that allow it to support the existence of life forms, has been a central theme in religion for millennia and in science for centuries. In the past half-century, in

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particular, enormous progress in particle and nuclear physics and cosmology has clarified the essential role of imperfections - deviations from perfect symmetry or homogeneity or predictability - in establishing conditions that allow for structure in the

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universe that can support the development of life. Many of these deviations are tiny and seem mysteriously fine-tuned to allow for life. The goal of this book is to review the recent and ongoing scientific research exploring these imperfections, in

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a broad-ranging, non-mathematical approach with an emphasis on the intricate tapestry of elegant experiments that bear on the conditions for habitability in our universe. This book makes clear what we know and how we know it, as distinct

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from what we speculate and how we might test it. At the same time, it attempts to convey a sense of wonderment at the tuning of these imperfections and of the rapid rate at which the boundary between knowledge and speculation is currently shifting.

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**Technological advances and the rise of
collaborative, interdisciplinary
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of research. The 21st century researcher not only faces the challenge of managing increasingly complex datasets, but also new data sharing requirements from funders and journals. Success in today's research enterprise requires an understanding of how to work effectively with data, yet

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most researchers have never had any formal training in data management. Libraries have begun developing services and programs to help researchers meet the demands of the data-driven research enterprise, giving librarians exciting new opportunities to use their expertise and skills. The

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**Medical Library Association Guide to
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librarians are addressing researchers'
changing needs at a variety of
institutions, including academic,
hospital, and government libraries.
Each chapter ends with “pearls of**

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**wisdom,” a bulleted list of 5-10
takeaway messages from the chapter
that will help readers quickly put the
ideas from the chapter into practice.
From theoretical foundations to
practical applications, this book
provides a background for librarians
who are new to data management as**

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well as new ideas and approaches for experienced data librarians.

This thesis describes one of the most precise experimental tests of Lorentz symmetry in electrodynamics by light-speed anisotropy measurement with an asymmetric optical ring cavity. The author aims to answer the fundamental,

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hypothetical debate on Lorentz symmetry in the Universe. He concludes that the symmetry is protected within an error of 10^{-15} , which means providing one of the most stringent upper limits on the violation of the Lorentz symmetry in the framework of the Standard Model Extension. It

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introduces the following three keys which play an important role in achieving high-precision measurement: (1) a high-index element (silicon) interpolated into part of the light paths in the optical ring cavity, which improves sensitivity to the violation of the Lorentz symmetry, (2) double-pass

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configuration of the interferometer, which suppresses environmental noises, and (3) continuous data acquisition by rotating the optical ring cavity, which makes it possible to search for higher-order violations of Lorentz symmetry. In addition to those well-described keys, a comprehensive summary from

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has released tentative test dates for the 2021 Regents. The dates are set for January 26-29, 2021, June 15-25, 2021, and August 12-13th. This edition features: Eight actual, administered Regents exams so students can get familiar with the test Comprehensive review questions grouped by topic, to

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Commission, known commonly as
CGPSC is a state government agency

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of Chhattisgarh state, responsible for conducting Civil Services examinations and Competitive Examinations to select the eligible candidates for various civil services and departmental posts. Every year Chhattisgarh Public Service Commission conducts CGPSC

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difficulties students have
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teaching and learning. The book brings together different teaching and learning perspectives, and addresses both fundamental considerations and practical aspects. Divided

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classroom discourse and an
evaluated teaching
proposal. The last part
describes approaches that*

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*take up mathematization in
a broader interpretation,
and includes the
presentation of a model
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pedagogical content
knowledge (PCK) specific*

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in physics.*

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that they can communicate optimally with patent attorneys and business analysts. Likewise, advanced researchers will be assisted in conveying the results of their research to the industrial and

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business community, governmental circles, and the general public in the chapter on popular media. Researchers at all levels will find the chapter on CV's and job hunting helpful. The Writing

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Well chapter will assist researchers to improve their English usage in scientific writing. This chapter is oriented both at native English speakers, who have an intuitive command of English

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but often lack formal instruction on grammar and structure, and non-native English writers, who often have had formal instruction but lack intuitive grasp of what sounds good. Mentors will find

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the book a useful tool for systematically guiding their students in their early writing efforts. If your students read this book first, you will save time! Communicating Science may serve as a textbook for

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*graduate level courses in
scientific writing.*

*At the heart of quantum
mechanics lies the wave
function, a powerful but
mysterious mathematical
object which has been a hot*

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topic of debate from its earliest stages. Covering much of the recent debate and providing a comprehensive and critical review of competing approaches, this ambitious text provides new,

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decisive proof of the reality of the wave function. Aiming to make sense of the wave function in quantum mechanics and to find the ontological content of the theory, this book explores new

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ontological interpretations of the wave function in terms of random discontinuous motion of particles. Finally, the book investigates whether the suggested quantum ontology is complete in solving the

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measurement problem and if it should be revised in the relativistic domain. A timely addition to the literature on the foundations of quantum mechanics, this book is of value to students and

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researchers with an interest in the philosophy of physics. This book (vol. 2) presents the proceedings of the IUPESM World Congress on Biomedical Engineering and Medical Physics, a triennially organized

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joint meeting of medical physicists, biomedical engineers and adjoining health care professionals. Besides the purely scientific and technological topics, the 2018 Congress will also focus on

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other aspects of professional involvement in health care, such as education and training, accreditation and certification, health technology assessment and patient safety. The IUPESM meeting is an

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important forum for medical physicists and biomedical engineers in medicine and healthcare learn and share knowledge, and discuss the latest research outcomes and technological advancements as

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*well as new ideas in both
medical physics and
biomedical engineering field.
The Electronic Device Failure
Analysis Society proudly
announces the Seventh Edition
of the Microelectronics Failure*

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published by ASM
International. The new edition
will help engineers improve
their ability to verify, isolate,
uncover, and identify the root
cause of failures. Prepared by*

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a team of experts, this updated reference offers the latest information on advanced failure analysis tools and techniques, illustrated with numerous real-life examples. This book is geared to

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practicing engineers and for studies in the major area of power plant engineering. For non-metallurgists, a chapter has been devoted to the basics of material science, metallurgy of steels, heat treatment, and

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*structure-property correlation.
A chapter on materials for
boiler tubes covers
composition and application of
different grades of steels and
high temperature alloys
currently in use as boiler tubes*

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and future materials to be used in supercritical, ultra-supercritical and advanced ultra-supercritical thermal power plants. A comprehensive discussion on different mechanisms of boiler

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tube failure is the heart of the book. Additional chapters detailing the role of advanced material characterization techniques in failure investigation and the role of water chemistry in tube

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*failures are key contributions
to the book.*

*The Meaning of the Wave
Function*

*Health Assessment for Nursing
Practice - E-Book*

Tests of Lorentz Invariance

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*with an Optical Ring Cavity
Hearings Before a
Subcommittee of the
Committee on Appropriations,
House of Representatives, One
Hundred Fourteenth Congress,
First Session*

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*Full STEAM Ahead
World Congress on Medical
Physics and Biomedical
Engineering, June 7-12, 2015,
Toronto, Canada*

In the past few years,
interest in plug-in electric

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vehicles (PEVs) has grown. Advances in battery and other technologies, new federal standards for carbon-dioxide emissions and fuel economy, state zero-emission-vehicle requirements, and the

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current administration's goal of putting millions of alternative-fuel vehicles on the road have all highlighted PEVs as a transportation alternative. Consumers are also beginning to recognize

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the advantages of PEVs over conventional vehicles, such as lower operating costs, smoother operation, and better acceleration; the ability to fuel up at home; and zero tailpipe emissions when the

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vehicle operates solely on its battery. There are, however, barriers to PEV deployment, including the vehicle cost, the short all-electric driving range, the long battery charging time, uncertainties

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about battery life, the few choices of vehicle models, and the need for a charging infrastructure to support PEVs. What should industry do to improve the performance of PEVs and

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make them more attractive to consumers? At the request of Congress, Overcoming Barriers to Deployment of Plug-in Electric Vehicles identifies barriers to the introduction of electric

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vehicles and recommends ways to mitigate these barriers. This report examines the characteristics and capabilities of electric vehicle technologies, such as cost, performance, range,

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safety, and durability, and assesses how these factors might create barriers to widespread deployment. Overcoming Barriers to Deployment of Plug-in Electric Vehicles provides an

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overview of the current status of PEVs and makes recommendations to spur the industry and increase the attractiveness of this promising technology for consumers. Through

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consideration of consumer behaviors, tax incentives, business models, incentive programs, and infrastructure needs, this book studies the state of the industry and makes recommendations to

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further its development and acceptance.

With classroom response systems (or CRSs, also known as Student Response Systems, Individual Response Systems, or, informally,

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“ clickers ”) in use in higher education for some 20 years, there is now both ample research and a wealth of examples and ideas to draw on for faculty who are contemplating their use, or

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exploring new ways to integrate them in their teaching. The research demonstrates that, integrated purposefully in courses, the use of clickers aligns with what neuroscience tells us

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about the formation of memory and the development of learning. In addition, they elicit contributions from otherwise reticent students and enhance collaboration, even in large lecture courses;

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foster more honest responses to discussion prompts; increase students' engagement and satisfaction with the classroom environment; and provide an instantaneous method of

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formative assessment. This book presents a brief history of the development of CRSs and a survey of empirical research to provide a context for current best practices, and then presents seven

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chapters providing authentic, effective examples of the use of clickers across a wide range of academic disciplines, demonstrating how they can be effective in helping students to recognize their

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misconceptions and grasp
fundamental concepts. Like all
pedagogical interventions,
classroom response systems
are no panacea, and the
experienced contributors
candidly describe avoidable

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pitfalls while demonstrating how clickers can deepen student learning and how, by providing instantaneous feedback, they enable teachers to make adjustments on the fly to better address

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student understandings or misunderstandings. The final chapter explores pros and cons of response systems that use mobile devices and smart phones, and the book concludes with an annotated

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list of further resources, such as books, articles, and videos. A 2020 AESA Critics' Choice Book Award winner The rise of high-stakes testing in New York and across the nation has narrowed and simplified

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what is taught, while becoming central to the effort to privatize public schools. However, it and similar reform efforts have met resistance, with New York as the exemplar for how to repel

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standardized testing and
invasive data collection, such
as inBloom. In New York, the
two parent/teacher
organizations that have been
most effective are Long
Island Opt Out and New York

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State Allies for Public Education. Over the last four years, they and other groups have focused on having parents refuse to submit their children to the testing regime, arguing that if students don't

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take the tests, the results aren't usable. The opt-out movement has been so successful that 20% of students statewide and 50% of students on Long Island refused to take tests. In

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Opting Out, two parent leaders of the opt-out movement—Jeanette Deutermann and Lisa Rudley—tell why and how they became activists in the two organizations. The story of

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parents, students, and teachers resisting not only high-stakes testing but also privatization and other corporate reforms parallels the rise of teachers across the country going on strike to

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demand increases in school funding and teacher salaries. Both the success of the opt-out movement and teacher strikes reflect the rise of grassroots organizing using social media to influence

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Academic Conference in
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Asian Defence Review
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June 3-8, 2018, Prague,

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Czech Republic (Vol.2)

The Case of West Virginia :
Hearing Before the
Committee on Environment
and Public Works, United
States Senate, One Hundred
Fourteenth Congress, First

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Session, March 23, 2015,
Beckley, WV.

This book presents the proceedings of the IUPESM World Biomedical Engineering and Medical Physics, a tri-annual high-level policy meeting dedicated exclusively to furthering

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the role of biomedical engineering and medical physics in medicine. The book offers papers about emerging issues related to the development and sustainability of the role and impact of medical physicists and biomedical

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engineers in medicine and healthcare. It provides a unique and important forum to secure a coordinated, multileveled global response to the need, demand and importance of creating and supporting strong academic and

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clinical teams of biomedical engineers and medical physicists for the benefit of human health.

" • Can I contribute to science? • Do I like to work on the problems of science? • How do scientists know what they know? • Would I like to

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be|become a scientist? These are questions that interest new science students. The authors provide teachers with an approach to foster and answer these questions by concentrating on learners and learning. They argue that students

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are typically taught from a disciplinary perspective of science. Using this lens students are viewed as people who need to learn a particular canon of information, methods, and ways of knowing about the world—a perspective that

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may be useful for practicing scientists, but not ideal for young learners. In this disciplinary approach to science education there is little room for development as a scientist. In contrast, the approach championed by Kirsh and

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Amoroso places learner questions about the world at the forefront of teaching and learning and treats science as a system of human activity. The historical explorations, theoretical insights and practical advice presented here are

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appropriate for all ages and educational settings. In *Being and Becoming Scientists Today*, the authors provide: new tools for thinking about science, ideas for how to reveal the multiple stories of knowledge production to learners,

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and approaches to teaching science as a collective process rather than a series of contributions made by (famous) individuals. In these ways, the authors promote the idea that all science learners contribute to the science in our

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lives."

The revival of major world power rivalry is a striking feature of the current international affairs. In the year gone by, Europe, supported by the US, vied with Russia for influence in Ukraine—a race that led

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to the annexation of Crimea by Russia and a pro-Russian insurgency in that region. In Asia, while the US is gradually drawing down in Afghanistan, it is also seeking to counter the growing influence of China. The sole Super

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Power is garnering support from China's neighbours, India included, to balance the resurgent Dragon. Meanwhile, the rapid growth of ISIS has disturbed the world peace. The progress made in the negotiations on Iran's nuclear programme is

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likely to affect calculations and equations all over the world. No region is impervious to the happenings in another part of the world. Competition (read rivalries) and geopolitical shifts pose myriad challenges to the peace-loving

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nations of the world—quite often, they are faced with the difficulty of evading armed conflicts. It requires conscious and sustained effort to do so. In order to work towards such goals, it is necessary to look at geopolitical, security and military-

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related issues objectively. The Centre for Air Power Studies has been publishing the Asian Defence Review to fulfill this need. This volume, a resource base for both the professional and the general readers, is the eighth in the series

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under this title. It aims to add to the pool of information and knowledge in the current strategic discourse dealing with military strategy, defence, politics and trends in military capabilities that impact Asia. In particular, it covers some of

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the important issues related to Air Power, Tactical Nuclear Weapons, Cyber Security, Network-Centric Warfare, Environmental Degradation, Iran, Pakistan and China.

Classroom Assessment and

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Educational Measurement explores the ways in which the theory and practice of both educational measurement and the assessment of student learning in classroom settings mutually inform one another. Chapters by assessment

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and measurement experts consider the nature of classroom assessment information, from student achievement to affective and socio-emotional attributes; how teachers interpret and work with assessment results; and emerging

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issues in assessment such as digital technologies and diversity/inclusion. This book uniquely considers the limitations of applying large-scale educational measurement theory to classroom assessment and the adaptations

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necessary to make this transfer useful. Researchers, graduate students, industry professionals, and policymakers will come away with an essential understanding of how the classroom assessment context is essential to broadening

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contemporary educational
measurement perspectives.

Report to Congress of the
U.S.-China Economic and Security
Review Commission

Volume One: Export Challenges
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Opting Out

Signatures of the Artist

Communicating Science: A

Practical Guide For Engineers And
Physical Scientists

Reconstructing Assumptions about
Science and Science Education

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to Reclaim a Learner-Scientist
Perspective

Peterson's Private Secondary Schools
2014-15 is a valuable resource to help
parents and students evaluate and
choose from more than 1,100 schools
in the United States, Canada, and
throughout the world. Featured

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institutions include independent day schools, special-needs schools, and boarding schools-including junior boarding schools for middle school students. Profiles offer detailed information on areas of specialization, location/setting, affiliation, accreditation, tuition and aid

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availability, student body, faculty, academic programs, athletics, computers and campus technology, and admission information. Dozens of in-depth descriptions and displays offer photos of students and school campuses, as well as essential information to help parents find the

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right private secondary school for their child. Extra Summer Programs section offers additional details on fascinating summer opportunities at private secondary schools.

This timely overview of dose, benefit, and risk in medical imaging explains to readers how to apply this information

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for informed decision-making that improves patient outcomes. The chapters cover patient and physician perspectives, referral guidelines, appropriateness criteria, and quantifying medical imaging benefits. The authors have included essential discussion about radiologic physics in

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medical imaging, fundamentals of dose and image quality, risk assessment, and techniques for optimization and dose reduction. The book highlights practical implementation aspects with useful case studies and checklists for treatment planning. Clinicians,

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students, residents, and professionals in medical physics, biomedical engineering, radiology, oncology, and allied disciplines will find this book an essential resource with the following key features: Discusses risk, benefit, dose optimization, safety, regulation, radiological protection, and shared &

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informed decision-making. Covers regulatory oversight by government agencies, manufacturers, and societies. Highlights best practices for improving patient safety and outcomes. Gives guidelines on doses associated with specific procedures.

The School

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