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Legionnaires' disease, a

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pneumonia caused by the Legionella bacterium, is the leading cause of reported waterborne disease outbreaks in the United States. Legionella occur naturally in water from many different environmental

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sources, but grow rapidly in the warm, stagnant conditions that can be found in engineered water systems such as cooling towers, building plumbing, and hot tubs. Humans are primarily exposed to *Legionella* through inhalation of

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contaminated aerosols into the respiratory system.

Legionnaires' disease can be fatal, with between 3 and 33 percent of Legionella infections leading to death, and studies show the incidence of

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Legionnaires' disease in the United States increased five-fold from 2000 to 2017. Management of Legionella in Water Systems reviews the state of science on Legionella contamination of water systems, specifically the

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ecology and diagnosis. This report explores the process of transmission via water systems, quantification, prevention and control, and policy and training issues that affect the incidence of Legionnaires' disease. It also

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analyzes existing knowledge gaps and recommends research priorities moving forward. Interactive General Chemistry meets students where they are...with a general chemistry program designed for the way

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effectively and efficiently tackle chemistry concepts and problem solving. Student-centered development In addition to Macmillan's standard rigorous peer review process, student involvement was critical to the

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development and design of Interactive General Chemistry. Using extensive research on student study behavior and data collection on the resources and tools that most effectively promote understanding, we

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crafted this complete course solution to intentionally embrace the way that students learn. Digital-first experience Interactive General Chemistry was built from the ground up to take full advantage of the digital

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learning environment. High-quality multimedia resources--including Sapling interactives, PhET simulations, and new whiteboard videos by Tyler DeWitt--are seamlessly integrated into a streamlined,

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uncluttered e-book. Embedded links provide easy and efficient navigation, enabling students to link to review material and definitions as needed. Problems drive purposeful study Our research into students' study

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behavior showed that students learn best by doing--so with Interactive General Chemistry, homework problems are designed to be a front door for learning. Expanding upon the acclaimed Sapling

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homework--where every problem contains hints, targeted feedback, and detailed step-by-step solutions--embedded resources link problems directly to the multimedia-rich e-book, providing just-in-time support at

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the section and chapter level.
Linking OChem to natural
products, polymers,
pharmaceuticals and more
Organic chemistry educators
have a critical role in engaging
and improving student outcomes

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at a foundational level. The material in the traditional one-year sequence is foundational for upper level science courses as well as many pre-professional programs, such as medicine. When students are engaged in

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learning the fundamental concepts in organic chemistry, they are better prepared to apply organic concepts to other applications across chemistry. In this work, authors share methods for engaging students

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in organic chemistry, including in an online environment. These methods range from creative activities for individual class topics to pedagogical models utilized over an academic year. Laboratory experiments, writing

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assignments, and innovative assignments are included.

Psychology of Intelligence
Analysis

Compendium of methods for the determination of toxic organic compounds in ambient air

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Teaching Innovation in
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Studies and Main Practices

This volume provides an overview of the recent advances in the field of paper microfluidics, whose innumerable research domains have stimulated

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considerable efforts to the development of rapid, cost-effective and simplified point-of-care diagnostic systems. The book is divided into three parts viz. theoretical background of

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**paper microfluidics,
fabrication techniques for
paper-based devices, and
broad applications. Each
chapter of the book is self-
explanatory and focuses on
a specific topic and its**

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**relation to paper
microfluidics and starts
with a brief description of
the topic's physical
background, essential
definitions, and a short
story of the recent progress**

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in the relevant field. The book also covers the future outlook, remaining challenges, and emerging opportunities. This book shall be a tremendous up-to-date resource for

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examples, and references
on learning theory,
teaching methods, and
pedagogical issues related
to teaching chemistry to
college students. In the last**

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several years there has been considerable activity and research in chemical education, and the materials in this book integrate the latest developments in chemistry.

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tests. The series,
initiated in 1938,
provides factual
information, critical
reviews, and comprehensive
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on the construction, use,

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and validity of all tests published in English. The objectives of the Mental Measurements Yearbooks have remained essentially the same since the publication of the series.

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reviewers, and extensive
references on specific
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the-art essay on "Mental Measurement: Some Emerging Trends" by Dr. Anne Anastasi, a leading figure in the field of measurement. Indexes to the volume are: an Index

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of Titles with cross
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Subject Index, a
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Lists achievement, aptitude, intelligence, personality, and sensorimotor skill tests, and offers information on test levels, subject matter, and scoring

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Argumentation—arriving at conclusions on a topic through a process of logical reasoning that includes debate and persuasion— has in recent years emerged as a central

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topic of discussion among science educators and researchers. There is now a firm and general belief that fostering argumentation in learning activities can develop

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students' critical thinking and reasoning skills, and that dialogic and collaborative inquiries are key precursors to an engagement in scientific

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argumentation. It is also reckoned that argumentation helps students assimilate knowledge and generate complex meaning. The consensus among educators

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is that involving students in scientific argumentation must play a critical role in the education process itself. Recent analysis of research trends in science

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education indicates that argumentation is now the most prevalent research topic in the literature. This book attempts to consolidate contemporary thinking and research on

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the role of scientific argumentation in education. Perspectives on Scientific Argumentation brings together prominent scholars in the field to share the sum of their

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knowledge about the place
of scientific
argumentation in teaching
and learning. Chapters
explore scientific
argumentation as a means
of addressing and solving

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problems in conceptual change, reasoning, knowledge-building and the promotion of scientific literacy. Others interrogate topics such as the importance of

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language, discursive
practice, social
interactions and culture
in the classroom. The
material in this book,
which features
intervention studies,

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discourse analyses,
classroom-based
experiments,
anthropological
observations, and design-
based research, will
inform theoretical

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frameworks and changing pedagogical practices as well as encourage new avenues of research.

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Argumentation

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A Case for the Science
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Science Inquiry, Argument and
Language describes research that has
focused on addressing the issue of
embedding language practices within
science inquiry through the use of the

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Science Writing Heuristic approach.
Written for calculus-inclusive general chemistry courses, Chemical Principles helps students develop chemical insight by showing the connections between fundamental chemical ideas and their applications. Unlike other texts, it

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Engaging Students in Organic
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Millions of Americans use e-
cigarettes. Despite their popularity,
little is known about their health
effects. Some suggest that e-

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cigarettes likely confer lower risk compared to combustible tobacco cigarettes, because they do not expose users to toxicants produced through combustion. Proponents of e-cigarette use also tout the potential benefits of e-cigarettes as devices

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that could help combustible tobacco cigarette smokers to quit and thereby reduce tobacco-related health risks. Others are concerned about the exposure to potentially toxic substances contained in e-cigarette emissions, especially in

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individuals who have never used tobacco products such as youth and young adults. Given their relatively recent introduction, there has been little time for a scientific body of evidence to develop on the health effects of e-cigarettes. Public Health

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Consequences of E-Cigarettes reviews and critically assesses the state of the emerging evidence about e-cigarettes and health. This report makes recommendations for the improvement of this research and highlights gaps that are a priority for

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future research.

In this seminal work, published by the C.I.A. itself, produced by Intelligence veteran Richards Heuer discusses three pivotal points. First, human minds are ill-equipped ("poorly wired") to cope effectively

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with both inherent and induced uncertainty. Second, increased knowledge of our inherent biases tends to be of little assistance to the analyst. And lastly, tools and techniques that apply higher levels of critical thinking can substantially

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improve analysis on complex
problems.

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Chemistry focuses on
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*and information about
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(aka Analytical
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fields. The content
builds upon previous
editions with more*

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*enhanced content that
deals with principles
and techniques of
quantitative analysis
with more examples of
analytical techniques
drawn from areas such as*

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clinical chemistry, life sciences, air and water pollution, and industrial analyses. This book provides an overview of the issues facing new chemistry

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*faculty in preparation
for teaching. Serving as
a reference to answer
specific questions new
chemistry faculty
encounter, this book is
comparable to sitting*

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down with a colleague in the department and talking through some ideas, or gaining some pointers on how to avoid common pitfalls. It is the one single place new

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*established experts in
the field and by new
professors within their
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*This book explores
evidence-based practice*

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*in college science
teaching. It is grounded
in disciplinary
education research by
practicing scientists
who have chosen to take
Wieman's (2014)*

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*challenge seriously, and
to investigate claims
about the efficacy of
alternative strategies
in college science
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*chosen to showcase
outstanding cases of
exemplary practice
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evidence, and to include
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models of teaching and*

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*learning that meet the
high standards of the
scientific disciplines.
Our intention is to let
these distinguished
scientists speak for
themselves and to offer*

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excellence. Our primary
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thousands of dedicated
faculty and graduate
students who teach*

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*undergraduate science at
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colleges, 4-year liberal
arts institutions,
comprehensive regional
campuses, and flagship
research universities.*

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In keeping with Wieman's challenge, our primary focus has been on identifying classroom practices that encourage and support meaningful learning and conceptual

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*understanding in the
natural sciences. The
content is structured as
follows: after an
Introduction based on
Constructivist Learning
Theory (Section I), the*

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*practices we explore are
Eliciting Ideas and
Encouraging Reflection
(Section II); Using
Clickers to Engage
Students (Section III);
Supporting Peer*

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*Interaction through
Small Group Activities
(Section IV);
Restructuring Curriculum
and Instruction (Section
V); Rethinking the
Physical Environment*

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(Section VI); Enhancing Understanding with Technology (Section VII), and Assessing Understanding (Section VIII). The book's final section (IX) is devoted

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*to Professional Issues
facing college and
university faculty who
choose to adopt active
learning in their
courses. The common
feature underlying all*

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*of the strategies
described in this book
is their emphasis on
actively engaging
students who seek to
make sense of natural
objects and events. Many*

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of the strategies we highlight emerge from a constructivist view of learning that has gained widespread acceptance in recent years. In this view, learners make

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sense of the world by forging connections between new ideas and those that are part of their existing knowledge base. For most students, that knowledge base is

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*riddled with a host of
naïve notions,
misconceptions and
alternative conceptions
they have acquired
throughout their lives.
To a considerable*

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extent, the job of the teacher is to coax out these ideas; to help students understand how their ideas differ from the scientifically accepted view; to assist

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*as students restructure
and reconcile their
newly acquired
knowledge; and to
provide opportunities
for students to evaluate
what they have learned*

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*and apply it in novel
circumstances. Clearly,
this prescription
demands far more than
most college and
university scientists
have been prepared for.*

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Teaching innovation includes the evolution of both teaching and learning models to drive improvements in educational methodologies. Teaching innovation is a pioneer in the understanding and comprehension of the different teaching methodologies and models developed in the

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academic area. Teaching innovation is a process that seeks validation in the academic and teaching communities at universities in order to promote the improvement and its practices and uses in the future characterized by digital development and data-based methods. Teaching Innovation in

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will help the development of initiatives and practices focused on teaching innovation at higher education institutions. Covering topics such as didactic strategics, service learning, and technology-based gamification, this premier reference source is an indispensable resource for pre-service

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academicians.

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Volume 2, originally published by
Bentham and now distributed by
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developments in the field of NMR spectroscopy, including the analysis of plant polyphenols, the role of NMR spectroscopy in neuroradiology, NMR-based sensors, studies on protein and nucleic acid structure and function, and mathematical formations for NMR spectroscopy in structural biology. The

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and chemical engineering, making this resource a multi-disciplinary reference with broad applications. The content is ideal for readers who are seeking reviews and updates, as it consolidates scientific articles of a diverse nature into a single volume. Sections are organized based on

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implemented for improving biocompatibility. It provides an updated scientific concept of various interactions of biological systems with surfaces/modified surfaces at the molecular and cellular level. The chapters include various in-vitro, in-vivo, ex-vivo models to illustrate

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various aspects of Biointerface Engineering. Finally, the book elucidates troubleshooting strategies and future prospects of Biointerface Engineering in Medical Diagnostics and Drug Delivery.

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firm theoretical foundation
so that the results of your
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***research design that
address the goals and
questions asked; locating,
developing and testing the
validity-reliability of the
tools used in the study;
selecting appropriate data***

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analyses from quantitative, qualitative or mixed design disciplines to address the questions asked; writing conclusions based upon the data presented; and describing the implications

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This book provides fundamental information on various techniques for the detection of SARS-CoV-2

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including reverse transcriptase (RT) PCR, loop-mediated isothermal amplification, immunodiagnostic tests, and CRISPR-Cas. It reviews various testing kits and detection methodologies that are currently being used for the detection of SARS-

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CoV-2 and examines strategies for the post-treatment detection and monitoring of SARS-CoV-2. Further, it assesses the diagnostic potential of several SARS-CoV-2 proteins; and analyzes their structural determinants and immunogenicity. In turn, the

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book evaluates the potential of CRISPR-Cas 12-based assays for the detection of SARS-CoV-2 using RNA extracted from patients. Lastly, it discusses the use of miniaturized biosensors for the detection of other types of coronavirus.

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While this work assumes that the user has a background in laboratory procedures, it emphasises straightforward methods that do not require elaborate equipment.