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This edited book provides a global view on evolution education. It describes the state of evolution education in different countries that are representative of geographical regions around the globe such as Eastern Europe, Western Europe, North Africa, South Africa, North America, South America, Middle East, Far East, South East Asia, Australia, and New

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Zealand. Studies in evolution education literature can be divided into three main categories: (a) understanding the interrelationships among cognitive, affective, epistemological, and religious factors that are related to peoples' views about evolution, (b) designing, implementing, evaluating evolution education curriculum that reflects contemporary evolution understanding, and (c) reducing

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antievolutionary attitudes. This volume systematically summarizes the evolution education literature across these three categories for each country or geographical region. The individual chapters thus include common elements that facilitate a cross-cultural meta-analysis. Written for a primarily academic audience, this book provides a much-needed common background for future evolution education research

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across the globe.

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BiologyPrentice Hall

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utilizes a student-friendly approach that provides a powerful framework for connecting the key concepts of biology. New BIG IDEAs help all students focus on the most important concepts. Students explore concepts through engaging narrative, frequent use of analogies, familiar examples, and clear and instructional graphics.

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Now, with Success Tracker(tm) online, teachers can choose from a variety of diagnostic and benchmark tests to gauge student comprehension. Targeted remediation is available too! Whether using the text alone or in tandem with exceptional ancillaries and technology, teachers can meet the needs of every student at every learning level. With unparalleled reading support, resources to reach every student, and

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a proven research-based approach, authors Kenneth Miller and Joseph Levine continue to set the standard. Prentice Hall Biology delivers: Clear, accessible writing Up-to-date content A student friendly approach A powerful framework for connecting key concepts As technology evolves and electronic data becomes more complex, digital medical record management and analysis becomes a challenge. In order to discover

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patterns and make relevant predictions based on large data sets, researchers and medical professionals must find new methods to analyze and extract relevant health information. Big Data Analytics in Bioinformatics and Healthcare merges the fields of biology, technology, and medicine in order to present a comprehensive study on the emerging information processing applications necessary in the field

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of electronic medical record management. Complete with interdisciplinary research resources, this publication is an essential reference source for researchers, practitioners, and students interested in the fields of biological computation, database management, and health information technology, with a special focus on the methodologies and tools to manage massive and complex electronic information.

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Handbook of Research on
Innovations in Database
Technologies and
Applications

AP Biology Crash Course

Encyclopedia of Data

Warehousing and Mining,

Second Edition

Concepts of Biology

Current and Future

Trends

**Presents theories and models
associated with information privacy
and safeguard practices to help
anchor and guide the development
of technologies, standards, and best
practices. Provides recent,
comprehensive coverage of all
issues related to information security**

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and ethics, as well as the opportunities, future challenges, and emerging trends related to this subject.

Introduction to Biology, is one in a series of Just The Facts (JTF) textbooks created by the National Agricultural Institute for secondary and postsecondary programs in biology, agriculture, food and natural resources (AFNR). This is a bold, new approach to textbooks.

The textbook presents the essential knowledge of introductory biology in outline format. This essential knowledge is supported by a main concept, learning objectives and key terms at the beginning of each section references and a short

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assessment at the end of each section. Content of the book is further enhanced for student learning by connecting with complementary PowerPoint presentations and websites through QR codes (scanned by smart phones or tablets) or URLs. The textbook is available in print and electronic formats. To purchase electronic copies, inquire at: info@national-ag-institute.org

In science, more than elsewhere, a word is expected to mean what it says, nothing more, nothing less. But scientific discourse is neither different nor separable from ordinary language--meanings are multiple, ambiguities ubiquitous.

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Keywords in Evolutionary Biology grapples with this problem in a field especially prone to the confusion engendered by semantic imprecision. Written by historians, philosophers, and biologists--including, among others, Stephen Jay Gould, Diane Paul, John Beatty, Robert Richards, Richard Lewontin, David Sloan Wilson, Peter Bowler, and Richard Dawkins--these essays identify and explicate those terms in evolutionary biology which, though commonly used, are plagued by multiple concurrent and historically varying meanings. By clarifying these terms in their many guises, the editors Evelyn Fox Keller and Elisabeth

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Lloyd hope to focus attention on major scholarly problems in the field--problems sometimes obscured, sometimes reveals, and sometimes even created by the use of such equivocal words.

"Competition," "adaptation," and "fitness," for instance, are among the terms whose multiple meaning have led to more than merely semantic debates in evolutionary biology.

Exploring the complexity of keywords and clarifying their role in prominent issues in the field, this book will prove invaluable to scientists and philosophers trying to come to terms with evolutionary theory; it will also serve as a useful guide to future research into the way

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in which scientific language works. Traditional classroom learning environments are quickly becoming a thing of the past as research continues to support the integration of learning outside of a structured school environment. Blended learning, in particular, offers the best of both worlds, combining classroom learning with mobile and web-based learning environments. Blended Learning: Concepts, Methodologies, Tools, and Applications explores emerging trends, case studies, and digital tools for hybrid learning in modern educational settings. Focusing on the latest technological innovations as well as effective pedagogical

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practice, this critical multi-volume set is a comprehensive resource for instructional designers, educators, administrators, and graduate-level students in the field of education.

Basic Concepts

Glossary of Geology

Classroom Language: What Sort
(RLE Edu O)

Human-Computer Interaction:
Concepts, Methodologies, Tools,
and Applications

The fifth edition of the Glossary of Geology contains nearly 40,000 entries, including 3,600 new terms and nearly 13,000 entries with revised definitions from the previous edition. In

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addition to definitions, many entries include background information and aids to syllabication. The Glossary draws its authority from the expertise of more than 100 geoscientists in many specialties who reviewed definitions and added new terms.

REA's AP Biology Crash Course - Get a Higher Advanced Placement Score in Less Time
REA's Crash Course is perfect for the time-crunched student, last-minute studier, or anyone who wants a refresher on the subject! Are you crunched for time? Have you started studying for your AP Biology exam yet? How will you memorize all those

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facts before the test? Do you wish there was a fast and easy way to study for the exam AND boost your score? If this sounds like you, don't panic. REA's AP Biology Crash Course is just what you need. Our Crash Course gives you: Targeted, Focused Review – Study Only What You Need to Know The Crash Course is based on an in-depth analysis of the AP Biology course description outline and actual AP test questions. It covers only the information tested on the exam, so you can make the most of your valuable study time. Our easy-to-read format gives students a crash course in the major ideas,

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theories, and concepts in Biology, including: Molecules and Cells, Heredity and Evolution, and Organisms and Population. The book includes a discussion of AP Biology themes and their relationship to the test, the 12 AP Biology labs, essay writing—exemplars, data analysis/graphing techniques, and setting up an experiment. Expert Test-taking Strategies Written by an AP Biology teacher, the author shares his detailed, question-level strategies and explains the best way to answer the multiple-choice and essay questions. By following his expert advice, you can boost your overall point

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score. Take REA's FREE Practice Exam After studying the material in the Crash Course, go online and test what you've learned. Our free, full-length practice exam features timed testing, detailed explanations of answers, and automatic scoring. The exam is balanced to include every topic and type of question found on the actual AP exam, so you know you're studying the smart way. When it's crucial crunch time and your AP exam is just around the corner, you need REA's AP Biology Crash Course!

"Provides an in-depth review of current print and electronic tools for research in numerous

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disciplines of biology, including dictionaries and encyclopedias, method guides, handbooks, on-line directories, and periodicals. Directs readers to an associated Web page that maintains the URLs and annotations of all major Internet resources discussed in th

The development of better processes to provide proper healthcare has enhanced contemporary society. By implementing effective collaborative strategies, this ensures proper quality and instruction for both the patient and medical practitioners. Health Care Delivery and Clinical Science: Concepts,

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Methodologies, Tools, and Applications is a comprehensive reference source for the latest scholarly material on emerging strategies and methods for delivering optimal healthcare and examines the latest techniques and methods of clinical science. Highlighting a range of pertinent topics such as medication management, health literacy, and patient engagement, this multi-volume book is ideally designed for professionals, practitioners, researchers, academics, and graduate students interested in healthcare delivery and clinical science.

Medical Informatics: Concepts,
Methodologies, Tools, and

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Applications

Big Data Analytics in

Bioinformatics and Healthcare

Basic Environmental Technology

Reshaping Medical Practice and

Care with Health Information

Systems

Introduction to Biology

The Leading Introduction to Biochemical and Bioprocess Engineering, Updated with Key Advances in Productivity, Innovation, and Safety Bioprocess Engineering, Third Edition, is an extensive update of the world's leading introductory textbook on biochemical and bioprocess engineering and reflects

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key advances in productivity, innovation, and safety. The authors review relevant fundamentals of biochemistry, microbiology, and molecular biology, including enzymes, cell functions and growth, major metabolic pathways, alteration of cellular information, and other key topics. They then introduce evolving biological tools for manipulating cell biology more effectively and to reduce costs of bioprocesses. This edition presents major advances in the production of

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biologicals; highly productive techniques for making heterologous proteins; new commercial applications for both animal and plant cell cultures; key improvements in recombinant DNA microbe engineering; techniques for more consistent authentic post-translational processing of proteins; and other advanced topics. It includes new, improved, or expanded coverage of The role of small RNAs as regulators Transcription, translation, regulation, and differences between

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prokaryotes and eukaryotes Cell-free processes, metabolic engineering, and protein engineering Biofuels and energy, including coordinated enzyme systems, mixed-inhibition and enzyme-activation kinetics, and two-phase enzymatic reactions Synthetic biology The growing role of genomics and epigenomics Population balances and the Gompertz equation for batch growth and product formation Microreactors for scale-up/scale-down, including rapid scale-up of

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vaccine production The development of single-use technology in bioprocesses Stem cell technology and utilization Use of microfabrication, nanobiotechnology, and 3D printing techniques Advances in animal and plant cell biotechnology The text makes extensive use of illustrations, examples, and problems, and contains references for further reading as well as a detailed appendix describing traditional bioprocesses. CD-ROM includes animations, living graphs,

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***biochemistry in 3D
structure tutorials.***

***For researchers, teachers,
and students who deal with
eukaryotic microorganisms,
this comprehensive guide
contains current
information on the
protocists and their
descendants (exclusive of
the animals, fungi, and
plants). It represents an
illustrated abbreviated
version of Handbook of
Protoctista (Jones &
Bartlett, 1990). Extensively
illustrated with drawings,
light and electron
micrographs, and includes
photographs of leading***

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contributors to protocist research. Annotation c. Book News, Inc., Portland, OR (booknews.com)
By using computer simulations in research and development, computational science and engineering (CSE) allows empirical inquiry where traditional experimentation and methods of inquiry are difficult, inefficient, or prohibitively expensive. The Handbook of Research on Computational Science and Engineering: Theory and Practice is a reference for interested researchers and decision-makers who

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want a timely introduction to the possibilities in CSE to advance their ongoing research and applications or to discover new resources and cutting edge developments. Rather than reporting results obtained using CSE models, this comprehensive survey captures the architecture of the cross-disciplinary field, explores the long term implications of technology choices, alerts readers to the hurdles facing CSE, and identifies trends in future development.

Biology

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Theory and Practice Information Security and Ethics: Concepts, Methodologies, Tools, and Applications Keywords in Evolutionary Biology

*Contents: Sting Journalism:
Introduction, Forms and Features,
Sting Journalism: Ethics, Methods and
Hidden Cameras, Sting Operations:
Current Perspective, Famous
Investigative Journalists and Scandals,
Sting Operations in Indian
Perspectives.*

*This comprehensive introductory text
integrates evolutionary, ecological, and
demographic perspectives with new
results from field studies and
contemporary noninvasive molecular
and hormonal techniques to*

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understand how different primates behave and the significance of these insights for primate conservation. Each chapter is organized around the major research themes in the field, with Strier emphasizing the interplay between theory, observations, and conservation issues. Examples are drawn from the "classic" primate field studies as well as more recent studies, including many previously neglected species, to illustrate the vast behavioral variation that exists across the primate order. Primate Behavioral Ecology 6th Edition integrates the impacts of anthropogenic activities on primate populations, including zoonotic disease and climate change, and considers the importance of behavioral flexibility for primate conservation. This fully updated new edition brings exciting new methods, theoretical perspectives,

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and discoveries together to provide an incomparable overview of the field of primate behavioral ecology and its applications to primate conservation. It is considered to be a "must read" for all students interested in primates.

The lingo of soil science is a language unto itself. Soil and Environmental Science Dictionary is a glossary of terms used in soil and environmental science, including terms from related disciplines. Designed for teachers, students, researchers and others interested or involved in environmental sciences related to soils, this compilation includes a

"This set addresses a range of e-collaboration topics through advanced research chapters authored by an international partnership of field experts"--Provided by publisher.

Essentials of Public Health Biology

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*Handbook of Research on
Computational Science and
Engineering: Theory and Practice
A Guide for the Study of*

Pathophysiology

*"Principles of Biochemistry with
Henderson's Dictionary of Biological
Terms*

*Soil and Environmental Science
Dictionary*

As modern technologies continue to develop and evolve, the ability of users to interface with new systems becomes a paramount concern.

Research into new ways for humans to make use of advanced computers and other such technologies is necessary to fully realize the potential of 21st century tools. Human-Computer Interaction: Concepts, Methodologies, Tools,

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and Applications gathers research on user interfaces for advanced technologies and how these interfaces can facilitate new developments in the fields of robotics, assistive technologies, and computational intelligence. This four-volume reference contains cutting-edge research for computer scientists; faculty and students of robotics, digital science, and networked communications; and clinicians invested in assistive technologies. This seminal reference work includes chapters on topics pertaining to system usability, interactive design, mobile interfaces, virtual worlds, and more. This resource attempts to provide general definitions of technical

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terms used in oceanography and allied marine sciences.

The acquisition and use of language are just as vital to children's learning when the newer classroom methods are being employed as ever they were when the more traditional approaches were being used. Child centred learning has increasingly influenced language use and language work in the classroom – mainly in the primary sector, but also in the teaching of English, and indirectly in the teaching of other subject areas including the sciences. Interest in school learning and the special language it requires, compared with the language demands of everyday life, have

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recently developed in answer to the concern about allocation of the time available within the school timetable for each subject-based learning experience. In this volume the author focuses mainly on the language of subject learning in the secondary schools. She looks critically at some current notions concerned with language and learning and examines their translation into classroom practice. She then develops a picture of the language demands made by other subject areas using collected language material and finally, in the light of this evidence, she attempts to identify the range of language in everyday use in schools, goes on to draw conclusions and then makes

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recommendations.

For introductory courses in Environmental Technology, Water Supply and Pollution Control, Environmental Quality Control, Environmental and Sanitary Design, and Water and Wastewater Technology. Known for its wide range of topics and easy-to-read style, this book offers a practical introduction to water supply, waste management, and pollution control. Because of the wide scope of the subject matter, it includes special primer sections and a basic review of math and unit conversion. This edition continues its emphasis on illustration-incorporating hundreds of example problems, diagrams, and photographs-and includes

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more information on alternative waste water collection systems, onsite waste water disposal, the sustainability of groundwater resources and more!

Bioprocess Engineering

Spanish Section Summaries

W/Vocabulary Review

Evolution Education Around the
Globe

Keywords And Concepts In
Evolutionary Developmental
Biology

Glossary of Oceanographic Terms

Technology has become an integral part of our daily interactions, even within the hospitals and healthcare facilities we rely on in times of illness

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and injury. New technologies and systems are being developed every day, advancing the ways that we treat and maintain the health and wellbeing of diverse populations. Reshaping Medical Practice and Care with Health Information Systems explores the latest advancements in telemedicine and various medical technologies transforming the healthcare sector. Emphasizing current trends and future

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opportunities for IT integration in medicine, this timely publication is an essential reference source for medical professionals, IT specialists, graduate-level students, and researchers.

Concepts of Biology is designed for the single-semester introduction to biology course for non-science majors, which for many students is their only college-level science course. As such, this course represents an important opportunity for

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students to develop the necessary knowledge, tools, and skills to make informed decisions as they continue with their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more importantly, the content should be meaningful. Students do much better when they understand why biology is relevant to their everyday

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lives. For these reasons, Concepts of Biology is grounded on an evolutionary basis and includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand. We also strive to show the interconnectedness of topics within this extremely broad discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and

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coverage found in most syllabi for this course. A strength of Concepts of Biology is that instructors can customize the book, adapting it to the approach that works best in their classroom.

Concepts of Biology also includes an innovative art program that incorporates critical thinking and clicker questions to help students understand--and apply--key concepts. Thoroughly updated and reorganized, Strickberger's Evolution,

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Fourth Edition, presents biology students with a basic introduction to prevailing knowledge and ideas about evolution, discussing how, why, and where the world and its organisms changed throughout history.

Keeping consistent with Strickberger's engaging writing style, the authors carefully unfold a broad range of philosophical and historical topics that frame the theories of today including cosmological and geological evolution and

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its impact on life, the origins of life on earth, the development of molecular pathways from genetic systems to organismic morphology and function, the evolutionary history of organisms from microbes to animals, and the numerous molecular and populational concepts that explain the earth's dynamic evolution.

Important Notice: The digital edition of this book is missing some of the images or content found in the physical

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edition.

Important Notice: the digital edition of this book is missing some of the images or content found in the physical edition.

***A Practical Guide,
Revised And Expanded
Illustrated Glossary of
Protoctista***

***Water Supply, Waste
Management, and
Pollution Control
Biology for AP ® Courses
Blended Learning:
Concepts, Methodologies,
Tools, and Applications
In today's increasingly***

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interconnected and global society, the protection of basic liberties is an important consideration in public policy and international relations.

Profitable social interactions can begin only when a foundation of trust has been laid between two parties.

Human Rights and Ethics: Concepts, Methodologies, Tools, and Applications considers some of the most important issues in the ethics of human interaction, whether in business, politics, or science and technology. **Covering issues such as**

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cybercrime, bioethics, medical care, and corporate leadership, this four-volume reference work will serve as a crucial resource for leaders, innovators, educators, and other personnel living and working in the modern world. Biology for AP[®] courses covers the scope and sequence requirements of a typical two-semester Advanced Placement[®] biology course. The text provides comprehensive coverage of foundational research and core biology concepts through an

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evolutionary lens. Biology for AP® Courses was designed to meet and exceed the requirements of the College Board's AP® Biology framework while allowing significant flexibility for instructors. Each section of the book includes an introduction based on the AP® curriculum and includes rich features that engage students in scientific practice and AP® test preparation; it also highlights careers and research opportunities in biological sciences. Provides a collection of

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medical IT research in topics such as clinical knowledge management, medical informatics, mobile health and service delivery, and gene expression.

Introduction to the Biology of Marine Life is an introductory higher education textbook for students with no prior knowledge of marine biology. The book uses selected groups of marine organisms to provide a basic understanding of biological principles and processes that are fundamental to sea life.

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**E-Collaboration: Concepts,
Methodologies, Tools, and
Applications**

**Encyclopedia of Artificial
Intelligence**

Primate Behavioral Ecology

**The Prentice Hall Guide to
Evaluating Online Resources
with Research Navigator,
English 2004**

**Keywords and Concepts in
Evolutionary Developmental
Biology**

Covering more than 50 central terms and concepts in entries written by leading experts, this book offers an overview of this new subdiscipline of biology, providing the core insights and ideas that show how embryonic development relates to life-history evolution, adaptation, and

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responses to and integration with environmental factors.

Data mining continues to be an emerging interdisciplinary field that offers the ability to extract information from an existing data set and translate that knowledge for end-users into an understandable way. *Data Mining: Concepts, Methodologies, Tools, and Applications* is a comprehensive collection of research on the latest advancements and developments of data mining and how it fits into the current technological world. There are more than one billion documents on the Web, with the count continually rising at a pace of over one million new documents per day. As information increases, the motivation and interest in data warehousing and mining research and practice remains high in organizational interest. *The Encyclopedia of Data Warehousing and Mining, Second Edition,*

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offers thorough exposure to the issues of importance in the rapidly changing field of data warehousing and mining. This essential reference source informs decision makers, problem solvers, and data mining specialists in business, academia, government, and other settings with over 300 entries on theories, methodologies, functionalities, and applications.

The most respected and accomplished authorship team in high school biology, Ken Miller and Joe Levine are real scientists and educators who have dedicated their lives to scientific literacy. Their experience, knowledge, and insight guided them in creating this breakaway biology program -- one that continues to set the standard for clear, accessible writing. Brand-new content includes the latest scholarship on high-interest topics like stem cells, genetically modified foods, and antibiotics in animals.

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Teacher's ELL Handbook

Using The Biological Literature

Vocabulary of the Algae, Apicomplexa,
Ciliates, Foraminifera, Microspora, Water
Molds, Slime Molds, and the Other
Protoctists

Data Mining: Concepts, Methodologies,
Tools, and Applications

Concepts, Methodologies, Tools, and
Applications

"This book is a comprehensive and in-
depth reference to the most recent
developments in the field covering
theoretical developments, techniques,
technologies, among
others"--Provided by publisher.

"This book provides a wide
compendium of references to topics in
the field of the databases systems and
applications"--Provided by publisher.

Introduction To The Biology Of Marine
Life

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Lehninger Principles of Biochemistry
Human Rights and Ethics: Concepts,
Methodologies, Tools, and
Applications
Health Care Delivery and Clinical
Science: Concepts, Methodologies,
Tools, and Applications
Strickberger's Evolution