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*Environmental Science Class XII
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*separately by the U.S. Army Medical
Library.*

*Proceedings of the Second Conference
of Fish Telemetry in Europe held in La
Rochelle, April 5-9, 1997*

Cumulative Index, 1976-1980

Aerospace Medicine and Biology

Proceedings of the Second Conference

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*on Fish Telemetry in Europe, Held in
LaRochelle, France, 5 - 9 April 1997
Cumulated Index Medicus
Advances in Invertebrates and Fish
Telemetry*

Now more than ever,
biology has the

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potential to contribute practical solutions to many of the major challenges confronting the United States and the world. A New Biology for the 21st Century

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recommends that a "New Biology" approach--one that depends on greater integration within biology, and closer collaboration with physical, computational,

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and earth scientists,
mathematicians and
engineers--be used to
find solutions to four
key societal needs:
sustainable food
production, ecosystem

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restoration, optimized biofuel production, and improvement in human health. The approach calls for a coordinated effort to leverage resources across the

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federal, private, and academic sectors to help meet challenges and improve the return on life science research in general.

In the two decades since

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the last comprehensive
work on plant
peroxisomes appeared,
the scientific
approaches employed in
the study of plant
biology have changed

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beyond all recognition.
The accelerating pace of
plant research in the
post-genomic era is
leading us to appreciate
that peroxisomes have
many important roles in

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plant cells, including
reserve mobilisation,
nitrogen assimilation,
defence against stress,
and metabolism of plant
hormones, which are
vital for productivity

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and normal plant development. Many plant scientists are finding, and will no doubt continue to find, that their own area of research is connected in

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some way to peroxisomes.
Written by the leading
experts in the field,
this book surveys
peroxisomal metabolic
pathways, protein
targeting and biogenesis

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of the organelle and prospects for the manipulation of peroxisomal function for biotechnological purposes. It aims to draw together the

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current state of the art
as a convenient starting
point for anyone,
student or researcher,
who wishes to know about
plant peroxisomes.
This book includes

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Monday to Friday lessons
for each day of a
36-week school year and
short daily lessons. The
Monday to Thursday
lessons include two
sentences to edit,

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including corrections in
punctuation,
capitalization,
spelling, grammar, and
vocabulary and three
items practicing a
variety of language and

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reading skills. Friday
practice cycles through
five formats: language
usage, identifying and
correcting mistakes,
combining sentences,
choosing reference

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materials and figurative speech (similes, metaphors). The pages are reproducible and the book includes a skills list and answer keys.
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teacher and examiner,
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Coursebook with CD-ROM gives
comprehensive and accessible
coverage of the syllabus
content. Suggestions for
practical activities are*

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included, designed to help develop the required experimental skills, with full guidance included on the CD-ROM. Study tips throughout the text, exam-style questions at the end of each chapter and a host

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of revision and practice material on the CD-ROM are designed to help students prepare for their examinations. Answers to the exam-style questions in the Coursebook are provided on the CD-ROM.

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5090 syllabus specifications
for the Cambridge
International O level
Biology. Clear and simple
diagrams, simplified
language and complete
coverage of the syllabus are*

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the main highlights of the book.

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*group to the naturalist or
diver exploring the seashore
and beyond. With colour
illustrations, line
drawings, more than 1,500
colour photographs, and with
clear accessible text, this
book encompasses all those*

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*organisms that live in, on
and around the ocean,
bringing together in a
single text everything from
the minuscule to the
immense. It includes
sections on all but the most
obscure marine groups,*

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*covering invertebrate phyla
from sponges to sea squirts,
as well as plants, fungi,
bacteria, fish, reptiles,
mammals and birds. It
incorporates information on
identification,
distribution, structure,*

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*biology, ecology,
classification and
conservation of each group,
addressing the questions of
'what?', 'where?' and
'how?'. Today global
warming, overfishing, ocean
acidification and pollution*

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are just a few of the ever increasing number of threats and challenges faced by ocean life. Without knowledge of the animals, plants and other organisms that live in the marine world, we cannot hope to

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*support or implement
successful conservation and
management measures, nor
truly appreciate the
incredible wealth and
variety of marine life. The
Marine World is the product
of a lifetime spent by*

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Frances Dipper happily observing and studying marine organisms the world over. It has been brought to colourful life by a myriad of enthusiastic underwater photographers and by Marc Dando, the renowned natural

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history illustrator.

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(Edexcel International GCSE
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refereed proceedings of the
13th International
Conference on Neural
Information Processing,
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Kong, China in October*

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Behave*

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*The Human Digestive
System Videotape*

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Century*

An Introduction

***The chemical composition
of natural water is***

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*derived from many
different sources of
solutes, including gases
and aerosols from the
atmosphere, weathering
and erosion of rocks and
soil, solution or*

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*precipitation reactions
occurring below the land
surface, and cultural
effects resulting from
activities of man. Some
of the processes of
solution or*

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*precipitation of
minerals can be closely
evaluated by means of
principles of chemical
equilibrium including
the law of mass action
and the Nernst equation.*

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Other processes are irreversible and require consideration of reaction mechanisms and rates. The chemical composition of the crustal rocks of the

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*earth and the
composition of the ocean
and the atmosphere are
significant in
evaluating sources of
solutes in natural fresh
water. The ways in which*

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solutes are taken up or precipitated and the amounts present in solution are influenced by many environmental factors, especially climate, structure and

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*position of rock strata,
and biochemical effects
associated with life
cycles of plants and
animals, both
microscopic and
macroscopic. Taken all*

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*together and in
application with the
further influence of the
general circulation of
all water in the
hydrologic cycle, the
chemical principles and*

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*environmental factors
form a basis for the
developing science of
natural-water chemistry.
Fundamental data used in
the determination of
water quality are*

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*obtained by the chemical
analysis of water
samples in the
laboratory or onsite
sensing of chemical
properties in the field.
Sampling is complicated*

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*by changes in
composition of moving
water and the effects of
particulate suspended
material. Most of the
constituents determined
are reported in*

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*gravimetric units,
usually milligrams per
liter or
milliequivalents per
liter. More than 60
constituents and
properties are included*

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*in water analyses
frequently enough to
provide a basis for
consideration of the
sources from which each
is generally derived,
most probable forms of*

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*elements and ions in
solution, solubility
controls, expected
concentration ranges and
other chemical factors.
Concentrations of
elements that are*

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*commonly present in
amounts less than a few
tens of micrograms per
liter cannot always be
easily explained, but
present information
suggests many are*

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*controlled by solubility
of hydroxide or
carbonate or by sorption
on solid particles.
Chemical analyses may be
grouped and
statistically evaluated*

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by averages, frequency distributions, or ion correlations to summarize large volumes of data. Graphing of analyses or of groups of analyses aids in showing

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*chemical relationships
among waters, probable
sources of solutes,
areal water-quality
regimen, and water-
resources evaluation.
Graphs may show water*

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type based on chemical composition, relationships among ions, or groups of ions in individual waters or many waters considered simultaneously. The

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relationships of water quality to hydrologic parameters, such as stream discharge rate or ground-water flow patterns, can be shown by mathematical

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equations, graphs, and maps. About 75 water analyses selected from the literature are tabulated to illustrate the relationships described, and some of

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these, along with many others that are not tabulated, are also utilized in demonstrating graphing and mapping techniques. Relationships of water

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*composition to source
rock type are
illustrated by graphs of
some of the tabulated
analyses. Activities of
man may modify water
composition extensively*

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*through direct effects
of pollution and
indirect results of
water development, such
as intrusion of sea
water in ground-water
aquifers. Water-quality*

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standards for domestic, agricultural, and industrial use have been published by various agencies. Irrigation project requirements for water quality are

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*particularly intricate.
Fundamental knowledge of
processes that control
natural water
composition is required
for rational management
of water quality.*

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support students of
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prepare for assessment.
The Third Domain is the*

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*untold story of how the
discovery of a new form
of life -- first
ridiculed, then ignored
for the past thirty
years by mainstream
scientists -- is*

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*revolutionizing science,
industry, and even our
search for
extraterrestrial life.
Classification is a
serious issue for
science: if you don't*

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*know what you're looking
at, how can you
interpret what you see?
Starting with Carolus
Linnaeus in the 17th
century, scientists have
long struggled to order*

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and categorize the many forms of life on Earth. But by the early 20th century the tree of life seemed to have stabilized, with two main domains of life at

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*its roots: single-celled
and multi-celled
organisms. All creatures
fit into one of these
two groups. Or so we
thought. But in 1977, a
lone scientist named*

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*Carl Woese determined
that archaea --
biochemically and
genetically unique
organisms that live and
thrive in some of the
most inhospitable*

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*environments on Earth --
were a distinct form of
life, unlike anything
seen on Earth before.
This shocking discovery
was entirely
incompatible with the*

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*long-standing
classification of life
as we know it. But as it
turned out, archaea were
not life as we know it,
and the tree of life had
to be uprooted once*

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again. Now, archaea are being hailed as one of the most important scientific revelations of the 20th century. The Third Domain tells the story of their strange

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*potential and
investigates their
incredible history to
provide a riveting
account of an
astonishing discovery.
Cumulative listing*

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Why do we do the things we do? Over a decade in the making, this game-changing book is Robert Sapolsky's

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genre-shattering attempt to answer that question as fully as perhaps only he could, looking at it from every angle. Sapolsky's storytelling concept is delightful but it also has a powerful intrinsic logic: he starts by looking at the factors that bear on a person's

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reaction in the precise moment a behavior occurs, and then hops back in time from there, in stages, ultimately ending up at the deep history of our species and its genetic inheritance. And so the first category of explanation is the neurobiological one. What goes on

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in a person's brain a second before the behavior happens? Then he pulls out to a slightly larger field of vision, a little earlier in time: What sight, sound, or smell triggers the nervous system to produce that behavior? And then, what hormones act hours to days earlier to

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change how responsive that individual is to the stimuli which trigger the nervous system? By now, he has increased our field of vision so that we are thinking about neurobiology and the sensory world of our environment and endocrinology in trying to explain

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what happened. Sapolsky keeps going--next to what features of the environment affected that person's brain, and then back to the childhood of the individual, and then to their genetic makeup. Finally, he expands the view to encompass factors larger

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than that one individual. How culture has shaped that individual's group, what ecological factors helped shape that culture, and on and on, back to evolutionary factors thousands and even millions of years old. The result is one of the most dazzling tours de

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horizon of the science of human behavior ever attempted, a majestic synthesis that harvests cutting-edge research across a range of disciplines to provide a subtle and nuanced perspective on why we ultimately do the things we do...for good and for ill.

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Sapolsky builds on this understanding to wrestle with some of our deepest and thorniest questions relating to tribalism and xenophobia, hierarchy and competition, morality and free will, and war and peace. Wise, humane, often very funny, *Behave* is a towering

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achievement, powerfully humanizing, and downright heroic in its own right. Packed with spectacular superlatives, shocking stats, fantastic facts and fun figures, Science and Stuff celebrates the simple joy in finding things out. What can cats teach us about the laws

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of physics? Why was cabbage banned on the International Space Station? (Can you fart in space?) And would a penny dropped from the Empire State Building really kill someone? (Short answer: No!) But it's not all facts and stats. The feature chapter just for

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cadaver, along with a description of the histology of the walls of each region.

Study and Interpretation of the
Chemical Characteristics of Natural
Water

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