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Researchers at the Empa in Dübendorf ... ideally without sacrificing the non-toxicity requirement," Nyström tells Physics World.

Non-toxic supercapacitors go fully recyclable

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does not select student
participants. ELIGIBILITY:
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Instead, he argues, what's needed is a new cadre of "unusual mathematicians", physicists, computer and data scientists ... to attract data whizzes and physics geeks who could be earning ...

Dominic Cummings: the "weirdos" take back control

In other work, scientists have reported a quantum cascade laser that operates at a frequency of 17 THz, whose resonator is based on surface electromagnetic waves 10. There have also been studies ...

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Spasers explained

These interdisciplinary interactions must be between scientists who have not traditionally ... forcing and are governed by the laws of physics and chemistry. The main purpose of this Review ...

Microbial oceanography: paradigms, processes and promise

In particle physics, statistical bumps such as this occur frequently. If this one turns out to be real, it would be “a total game-changer”, says Gian Francesco Giudice, a CERN theorist who is ...

A New Elementary Particle? Evidence of Boson Heavier than

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Everybody loves solar power, right? It's nice, clean, renewable energy that's available pretty much everywhere the sun shines. If only the panels weren't so expensive. Even better, solar is ...

The Dark Side Of Solar Power

It was as heavy as four African elephants. The remains of a 26.5-million-year-old giant, hornless rhino — one of the largest mammals ever to walk Earth — have been discovered in northwestern ...

Ancient giant rhino was one of the largest mammals ever to walk Earth

Ice levels around the world are an active target of study for climate

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scientists. Records show major
sustained losses over recent
decades to major ice sheets, and
glaciers are retreating all over ...

*Tipping Points In The Climate
System: The Worst Kind Of
Positive Feedback*

scientists can then develop an
“electronic nose” which would
provide a fast, noninvasive
screening for cancers. A new
study presented by lead author
Gian Luigi Taverna of the
Humanitas ...

*Dogs Incredibly Accurate When
Sniffing Out Cancer*

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and Clinical Trials*

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Ultralight graphene
oxide/polyvinyl alcohol aerogel
for broadband and tuneable
acoustic properties . Scientific
Reports , 2021; 11 (1) DOI ...

*Meringue-like material could
make aircraft as quiet as a
hairdryer*

The experts in pancreatic cysts at
Memorial Sloan Kettering are
nationally recognized for their
leadership in evaluating and
treating this condition. Your

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Pancreatic Cyst Experts

Our pancreatic cancer team is one of the most experienced in the country. Every year, more than 800 people come to Memorial Sloan Kettering for treatment of a pancreatic cancer or a pancreatic cyst.

Pancreatic Cancer Surgeons, Doctors & Experts

Gian Magdangal, Davey Langit, and Anthony Barion from Ogie Alcasid's ATEAM (Alcasid Total Entertainment & Artist Management, Inc). Star Music's Sab and Recio, Polaris' Janine Berdin ...

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For the calculus-based General Physics course primarily taken by engineers and science majors (including physics majors). This long-awaited and extensive revision maintains Giancoli's reputation for creating carefully crafted, highly accurate and precise physics texts. Physics for Scientists and Engineers combines outstanding pedagogy with a clear and direct narrative and applications that draw the student into the physics. The new edition also features an unrivaled suite of media and on-line resources that enhance the understanding of physics. This book is written for students. It

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aims to explain physics in a readable and interesting manner that is accessible and clear, and to teach students by anticipating their needs and difficulties without oversimplifying. Physics is a description of reality, and thus each topic begins with concrete observations and experiences that students can directly relate to. We then move on to the generalizations and more formal treatment of the topic. Not only does this make the material more interesting and easier to understand, but it is closer to the way physics is actually practiced.

Presents basic concepts in physics, covering topics such as kinematics, Newton's laws of motion, gravitation, fluids, sound,

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heat, thermodynamics,
magnetism, nuclear physics, and
more, examples, practice
questions and problems.

Key Message: This book aims to explain physics in a readable and interesting manner that is accessible and clear, and to teach readers by anticipating their needs and difficulties without oversimplifying. Physics is a description of reality, and thus each topic begins with concrete observations and experiences that readers can directly relate to. We then move on to the generalizations and more formal treatment of the topic. Not only does this make the material more interesting and easier to understand, but it is closer to the

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Key Topics: INTRODUCTION,
MEASUREMENT, ESTIMATING,
DESCRIBING MOTION:
KINEMATICS IN ONE DIMENSION,
KINEMATICS IN TWO OR THREE
DIMENSIONS; VECTORS,
DYNAMICS: NEWTON'S LAWS OF
MOTION , USING NEWTON'S
LAWS: FRICTION, CIRCULAR
MOTION, DRAG FORCES,
GRAVITATION AND NEWTON'S 6
SYNTHESIS , WORK AND ENERGY ,
CONSERVATION OF ENERGY ,
LINEAR MOMENTUM ,
ROTATIONAL MOTION , ANGULAR
MOMENTUM; GENERAL ROTATION
, STATIC EQUILIBRIUM;
ELASTICITY AND FRACTURE ,
FLUIDS , OSCILLATIONS , WAVE
MOTION, SOUND , TEMPERATURE,
THERMAL EXPANSION, AND THE

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IDEAL GAS LAW KINETIC THEORY
OF GASES, HEAT AND THE FIRST
LAW OF THERMODYNAMICS ,
SECOND LAW OF
THERMODYNAMICS , ELECTRIC
CHARGE AND ELECTRIC FIELD ,
GAUSS'S LAW , ELECTRIC
POTENTIAL , CAPACITANCE,
DIELECTRICS, ELECTRIC ENERGY
STORAGE ELECTRIC CURRENTS
AND RESISTANCE, DC CIRCUITS,
MAGNETISM, SOURCES OF
MAGNETIC FIELD,
ELECTROMAGNETIC INDUCTION
AND FARADAY'S LAW,
INDUCTANCE, ELECTROMAGNETIC
OSCILLATIONS, AND AC CIRCUITS,
MAXWELL'S EQUATIONS AND
ELECTROMAGNETIC WAVES,
LIGHT: REFLECTION AND
REFRACTION, LENSES AND
OPTICAL INSTRUMENTS, THE

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WAVE NATURE OF LIGHT;
INTERFERENCE, DIFFRACTION
AND POLARIZATION, SPECIAL
THEORY OF RELATIVITY, EARLY
QUANTUM THEORY AND MODELS
OF THE ATOM, QUANTUM
MECHANICS, QUANTUM
MECHANICS OF ATOMS,
MOLECULES AND SOLIDS,
NUCLEAR PHYSICS AND
RADIOACTIVITY, NUCLEAR
ENERGY: EFFECTS AND USES OF
RADIATION, ELEMENTARY
PARTICLES, ASTROPHYSICS AND
COSMOLOGY

Market Description:
This book is written for readers
interested in learning the basics
of physics.

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print supplements that may come packaged with the bound book. Elegant, engaging, exacting, and concise, Giancoli's *Physics: Principles with Applications*, Seventh Edition, helps you view the world through eyes that know physics. Giancoli's text is a trusted classic, known for its elegant writing, clear presentation, and quality of content. Using concrete observations and experiences you can relate to, the text features an approach that reflects how science is actually practiced: it starts with the specifics, then moves to the great generalizations and the more formal aspects of a topic to show you why we believe what we believe. Written with the goal of

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giving you a thorough
understanding of the basic
concepts of physics in all its
aspects, the text uses interesting
applications to biology, medicine,
architecture, and digital
technology to show you how
useful physics is to your everyday
life and in your future profession.

In addition to featuring the latest discoveries, MODERN PHYSICS presents a contemporary and comprehensive approach to physics with a strong emphasis on applications. The authors discuss the experiments that led to key discoveries in order to illustrate the process behind scientific advances and to give students a historical perspective. The text features a flexible

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organization that allows
instructors to select and teach
topics in a preferred sequence
without compromising the
student's learning experience. A
sound theoretical foundation in
quantum theory is included to
help physics majors succeed in
their upper division courses.

This book provides an everyman's
guide for understanding and
following the discoveries that will
soon take place at the famous
Large Hadron Collider
experiments at CERN. The
material is presented accurately
yet accessibly, and the book is
infectious in its enthusiasm for
the project.

Key Message: This book aims to

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Explain physics in a readable and interesting manner that is accessible and clear, and to teach

readers by anticipating their needs and difficulties without oversimplifying. Physics is a description of reality, and thus each topic begins with concrete observations and experiences that readers can directly relate to.

We then move on to the generalizations and more formal treatment of the topic. Not only does this make the material more interesting and easier to understand, but it is closer to the way physics is actually

practiced. Key Topics: ELECTRIC CHARGE AND ELECTRIC FIELD, GAUSS'S LAW, ELECTRIC POTENTIAL, CAPACITANCE, DIELECTRICS, ELECTRIC ENERGY

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STORAGE, ELECTRIC CURRENTS
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MAXWELL'S EQUATIONS AND
ELECTROMAGNETIC WAVES,
LIGHT: REFLECTION AND
REFRACTION, LENSES AND
OPTICAL INSTRUMENTS, THE
WAVE NATURE OF LIGHT;
INTERFERENCE, DIFFRACTION
AND POLARIZATION, Market
Description: This book is written
for readers interested in learning
the basics of physics.

Stephen J. Gould's greatest
contribution to science is a

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revised version of the theory of evolution which offers today a useful framework for understanding progress in many evolutionary fields. His intuitions about the conjunction of evolution and development, the role of ecological factors in speciation, the multi-level interpretation of the units of selection, and the interplay between functional pressures and constraints all represent fruitful lines of experimental research. His opposition to the progressive representations of evolution, the gene-centered view of natural history, or the adaptationist “just-so stories” has also left its mark on current biology. In May 2012, at the Istituto Veneto di Scienze, Lettere ed Arti in Venice, an

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International panel of scientists

and philosophers discussed

Stephen J. Gould's legacy, ten

years after his death. This book

presents a selection of those

contributions, chosen for their

interest and importance. A broad

range of themes are covered:

Gould's contribution to

evolutionary theory, including the

concept of punctuated equilibria

and the importance of his

pluralism; the Gouldian view of

genome and development;

Gould's legacy in anthropology;

and, finally, the significance of his

thought for the human sciences.

This book provides a fascinating

appraisal of the cultural legacy of

one of the world's greatest

popular writers in the life

sciences. This is the first time that

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Gould's personal friends and co-authors of papers of momentous importance such as Niles Eldredge have come together to strike a balanced view of Gould's intellectual heritage.

Elegant, engaging, exacting, and concise, Giancoli's *Physics: Principles with Applications*, Seventh Edition, helps you view the world through eyes that know physics. Giancoli's text is a trusted classic, known for its elegant writing, clear presentation, and quality of content. Using concrete observations and experiences you can relate to, the text features an approach that reflects how science is actually practiced: it

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starts with the specifics, then moves to the great generalizations and the more formal aspects of a topic to show you why we believe what we believe. Written with the goal of giving you a thorough understanding of the basic concepts of physics in all its aspects, the text uses interesting applications to biology, medicine, architecture, and digital technology to show you how useful physics is to your everyday life and in your future profession. Note: This is just the standalone book.

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