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Combining mathematical rigor with qualitative explanations, and linking theory to practice with example problems, this is a perfect textbook for senior undergraduate and graduate students taking ...

Principles of Plasma Physics for Engineers and Scientists
A fleet of advanced hypersonic aircraft could be ferrying cargo and passengers to space by the middle of the century, according to a new report.

China Building Hypersonic Jet to Ferry Passengers Around Globe and to Space
The Microanalysis Society award recognizes Yimei Zhu’s contributions to materials research through electron microscopy advancements.

Brookhaven Lab Physicist Receives Microanalysis Society's Peter Duncumb Award
WHOI joint program, is helping to design robots that can independently navigate to sites where they can take samples or measurements that will be most useful to environmental scientists.

Designing exploratory robots that collect data for marine scientists
Dave Blodgett says he often wakes up at night thinking about work, but that’s OK, because it’s thrilling when your work has tremendous potential for meaningful impact. The chief scientist for APL’s ...

‘Solving Problems Others Haven’t’ Keeps Blodgett Focused on Invention
NASA recently awarded a cooperative agreement entitled “The Partnership for Heliophysics and Space Environment Research” (PHaSER) to the Catholic University of America (CUA), Institute of Astrophysics ...

USRA Selected as Member of the PHaSER Program Supporting NASA Goddard’s Heliophysics Division
Astronomers have discovered four nearby exoplanets they hope will help scientists learn about Earth's poorly understood teenage years.

Four newly found exoplanets may offer insights into Earth's teenage years
Scientists, engineers, technicians, and students assemble state-of-the-art components of major detector upgrade at the Relativistic Heavy Ion Collider (RHIC).

sPHENIX Assembly Shifts into Visible High Gear
At this French association, engineers and ... Now, CERN scientists may have found an answer to one of the most pressing mysteries in the Standard Model of Physics, and their research can be ...

Scientists May Have Solved the Biggest Mystery of the Big Bang
U.S. Secretary of Energy Jennifer M. Granholm virtually visited Lawrence Livermore National Laboratory (LLNL) Friday, June 25, where she met with leading scientists and engineers, toured lab ...

Secretary of Energy Jennifer M. Granholm virtually visits LLNL
“Particle physics plays a role in many major innovations of the 21st century, and to keep our competitive edge America must invest in the scientists and engineers that are advancing basic physical ...

DOE Invests $93 Million for New Discoveries in High Energy Physics
The American Physical Society has designated UC San Diego’s Mayer Hall as a historic site in recognition of research conducted by physicists Walter Kohn and Lu Jeu Sham on density functional theory.Th ...

UC San Diego: Mayer Hall Recognized for Historical Contributions to Physics
Pursuing a degree in physics can be the first step towards a variety of career opportunities. Here are four universities producing inventive thinkers through Physics.

In Europe, physics programmes with impact
“Researchers in engineering and physics face constantly evolving ... and is revolutionizing the way that students, engineers, and scientists learn, work, and discover. Their product line of ...

Liquid Instruments Introduces Moku:Pro – A High Performance, Software-Defined Instrumentation Platform for Engineers and Scientists
The program is a way for researchers to explore a new career or improve their science communication skills, while also expanding the public audience for science news.

Mass Media Fellowship Highlights the Need for Science Communicators
UC Santa Barbara physics professor ... for Young Scientists. Presented by the Blavatnik Family Foundation and the New York Academy of Scientists, it is the world’s largest unrestricted prize honoring ...

Making Waves
The COVID-19 pandemic has caused more than 600,000 deaths in the United States since the start of 2020 and more than 4 million globally. The search for effective treatments against the disease are ...

Scientists repurpose cancer and seizure medications to aid in the fight against COVID-19
Though they work in conjunction with other data professionals such as data analysts and software engineers ... physics, or business. Communication skills are also necessary for data scientists ...

Everything you need to know about becoming a data scientist
Researchers, scientists, engineers, academicians ... Environment and Climate Science; Applied Physics and Mathematics; Astronomy, Astrophysics and Astrobiology and Space Law, Management and ...

June 30 last date to submit abstract for participating in seventh ICASE
"Particle physics plays a role in many major innovations of the 21st century, and to keep our competitive edge America must invest in the scientists and engineers that are advancing basic physical ...

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 way physics is actually practiced. 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'S6 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 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 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: EFECTS AND USES OF RADIATION, ELEMENTARY PARTICLES,ASTROPHYSICS AND COSMOLOGY Market Description: This book is written for readers interested in learning the basics of physics.

This Value Pack consists of Physics for Scientists & Engineers, Vol. 1 (Chapters 1-20), 4/e by Douglas C. Giancoli (ISBN 9780132273589)and MasteringPhysics™ Student Access Kit for Physics for Scientists and Engineers, 4/e (ISBN 9780131992269)

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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 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.

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