

Engineering Physics Lab Manual 1st Year

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Researchers from Cornell University's School of Applied and Engineering Physics and Samsung's Advanced Institute of Technology have created a first-of-its-kind metalens—a metamaterial lens—that can be ...

Novel liquid crystal metalens offers electric zoom

Today, solar energy provides 2% of U.S. power. However, by 2050, renewables are predicted to be the most used energy source (surpassing petroleum and other liquids, natural gas, and coal) and solar ...

Engineers apply physics-informed machine learning to solar cell production

Engineers at Duke University have demonstrated a prototype X-ray scanning machine that reveals not just the shape of an

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object but its molecular composition. With unprecedented resolution and accuracy ...

New X-ray machine from Duke engineers could revolutionize scanning

Heart attacks and strokes—the leading causes of death in human beings—are fundamentally blood clots of the heart and brain. Better understanding how the blood-clotting process works and how to ...

A breakthrough in the physics of blood clotting

but are designed geometrically in the physics lab.

Metamaterials can be given special, often counterintuitive, properties. For the first time, physicists have now developed a toolbox to create ...

Metamaterials offer multifunctional materials for engineering

A major theme running through the Princeton Plasma Physics Laboratory's (PPPL) Young Women's Conference in Science, Technology, Engineering, and Mathematics (STEM) was how women in STEM must overcome ...

Perseverance is the theme at PPPL's annual Young Women's Conference in Science, Technology, Engineering, and Mathematics

It has direct application in fields including geology, life science, engineering, medicine and more. Physics is ideal for those pursuing study in engineering, professional schools, medicine, and many ...

Department of Physics & Astronomy

Yang and the UCSB Library have each announced their award winners for 2021. The Chancellor's Award for Excellence in Undergraduate Research has four student

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winners: Noelle Barr, who will earn ...

4 Undergrads, 1 Professor Win Chancellor's Research Awards; UCSB Library Honors 6 Students

Researchers at the University of Central Florida have published a first- of-its-kind study that shows that near-infrared (NIR) spectrum cameras can help python hunters more effectively track down ...

Florida Python Hunters May Have a New Tool Thanks to Optics Research at UCF

Take a more traditional approach to the study of physics with our BS in physics, which sets you up for success in graduate school, industry, or laboratory research ... on cutting-edge research ...

Physics—BA, BS

Understanding the physical behavior inside an operating nuclear reactor can be done only with simulations on a supercomputer due to the high-pressure, high-temperature, and radioactive environment ...

Argonne Claims 1st Full-core Pin-resolved Nuclear Reactor Model

Dimitris Chachlakis became the first student to be awarded the new Ph.D. in electrical and computer engineering this May from Rochester Institute of Technology. The new degree, recently approved by ...

RIT graduates its first doctoral student in new electrical and computer engineering program

Dr. Steven Quay and Richard Muller pointed to two key pieces of evidence to support the claim in an opinion piece.

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'Damning' science shows COVID-19 likely engineered in lab: experts

Engineers at Duke University have demonstrated a prototype X-ray scanning machine that reveals not just the shape of an object but its molecular composition. With unprecedented resolution and accuracy ...

X-ray Scanner Spots Cancers and Analyzes Drugs in Minutes

Researchers have published a first- of-its-kind study that shows that near-infrared (NIR) spectrum cameras can help python hunters more effectively track down these invasive snakes, especially at ...

Florida python hunters may have a new tool

In our final installment of the 2021 Senior Snapshots, we meet Bibi Razak, Michael Chan, Miho Takeuchi, Sam Maltz, and Hyomin (Flora) Seo from the Albert Nerken School of Engineering.

Senior Snapshots: Engineering 2021

A student with the University of Alabama at Huntsville has become the school's first Goldwater Scholar in 13 years.

Brick named UAH's first Goldwater Scholar in 13 years

Currently, we are putting the finishing touches on our first publication together and are tying up all the loose ends of our work together before I begin my appointment at the Princeton Plasma Physics ...

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