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Non-toxic supercapacitors go fully recyclable  
With the support of a prestigious \$542,813 National Science Foundation Faculty Early Career Development (CAREER) grant, physicist Trevor David Rhone is turning to artificial intelligence to help ...

Harnessing AI to search for new materials with exotic properties  
are pushing one of the most fundamental principles of quantum physics to the extreme limit by positioning a solid body of billions of atoms in two places at the same time.

Quantum particles: Pulled and compressed  
An engaging presentation of the important principles of network science makes this the perfect reference for researchers and undergraduate and graduate students in physics, mathematics, engineering, ...

Principles, Methods and Applications  
A scientist from the Division of Quantum Condensed Matter Physics at the University of Tsukuba has formulated a new theory of superconductivity. Based on the calculation of the 'Berry connection', ...

A new theory of superconductivity  
In this context, NanoMEMS-based applications will be predicated upon a multitude of physical phenomena, e.g., electrical, optical, mechanical, magnetic, fluidic, quantum effects and mixed domain.

Principles and Applications of NanoMEMS Physics  
The chaotically moving objects dense clusters digital twin is being developed by students from NUST MISIS, ITMO and MIPT to navigate robots. It is going to be a web service using graph neural networks ...

Neural network to study crowd physics for training urban robots  
The measurement method almost reached the limit set by Heisenberg's uncertainty principle - physics just does not allow for any ... the measured object – this is one of the most basic principles of ...

Heisenberg under the microscope  
Quantum computers are beginning to emerge in many industry and research labs. But what are qubits? And are the challenges ahead to control the quantum properties ...

What is Quantum Computing?  
Machine learning is gaining popularity across scientific and technical fields, but it's often not clear to researchers, especially young scientists, how they can apply these methods in their work.

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Our students acquire a solid understanding of physical principles ... and real-world applications. Drexel's certificate program also serves as a gateway into a Master of Science in Physics or a master ...

Physics Degrees  
Then he discovered medical physics, the application of physics principles to developing medical technology. The HST graduate program at MIT seemed like a natural fit. Home, and where heart research is ...

Charting a new course  
Waymo provides a glimpse at its SimulationCity software environment that it uses to test and validate driving algorithms.

Waymo SimulationCity is a powerful tool for testing autonomous driving  
expanded their understanding of the principles, body of knowledge, and investigative strategies that comprise physics and its technological applications; developed a scientific literacy that will ...

Undergraduate Program  
A researcher has introduced a new theory for superconductivity that can better explain the results of recent experiments with high-temperature superconductors. By focusing on the 'Berry connection,' ...

New theoretical model of high-temp superconductivity: Electrical current flowing with zero resistance  
Q-CTRL has been awarded a \$3.5 million grant (USD) from the Australian government's Modern Manufacturing Initiative (MMI) to expand the development and manufacture of quantum-based remote sensing ...

Q-CTRL awarded \$3.5 million grant from Australian government for space-based quantum sensors  
Health physics, also referred to as the science of radiation ... The first formal lecture and laboratory courses in the United States for teaching basic principles of radioactive isotope applications, ...