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My eldest daughter is currently grappling with such thorny questions in her physics lessons ... approach cannot answer”, Marletto argues – “questions that are deep and important for understanding the ...

Not everything that can happen does happen – reformulating physics as laws about the impossible

To answer this question – or ask a new one – email [lastword@newscientist.com](mailto:lastword@newscientist.com). Questions should be scientific enquiries about everyday phenomena, and both questions and answers should be concise.

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This week's new questions

Both leverage the same unexplained phenomenon in quantum physics: the entanglement between ... QC still registers a negative I-score, so the answer here may yet be "no"), it follows that the ...

How quantum networking could transform the internet [Status Report]

Argonne-driven technology is part of a broad initiative to answer fundamental questions about the birth of matter in the universe and the building blocks that hold it all together. Imagine the first ...

Quest to Reveal Fundamental Secrets of the Universe Driven by Curiosity and Technology

Unlike classical physics, quantum physics does not honor the same logic that applies to our everyday surroundings ... most powerful phenomena in our universe. So to answer the question ...

Understanding the Physics of Our Universe: What Is Quantum Mechanics?

Led by Professor Maurice Skolnick, the programme aims to capitalise on advanced technology to discover fundamentally new regimes of nanophotonic phenomena ... very efficiently and dominate many ...

University of Sheffield researchers awarded £6.1m to study light emitting semiconductors for quantum science and technology

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NSF and NBC Learn also collaborated on other fun, educational series including Physics begins with the everyday physical world around us and goes on to give us many answers--along with a rich and ...

## Physics Classroom Resources

Galileo's fame as a scientist rests on his ability to abstract the essential physics from complicated phenomena, to describe that physics ... A free-body diagram helps us keep track of our answers.

## Drawing Physics: 2,600 Years of Discovery From Thales to Higgs

We live in a time of great anxiety over the role of truth in public life. Media and popular culture are saturated with concerns over "fake news," alternative facts and conspiracy ...

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After a dry winter and spring, the fuel-moisture content in our forests (the amount of water in vegetation, living and dead) is way below average. This April, the month when it is usually at its ...

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Fourteen Utrecht-based researchers each receive an NWO Vidi scholarship of 800,000 euros. The laureates are going to use this money to develop their own, innovative research projects. The Vidi's are m ...

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Utrecht University: Fourteen Utrecht-based researchers receive Vidi grant

When Emily Levesque was 2 years old, Halley's Comet made its most recent close pass to Earth. Her older brother was observing the phenomenon for a school project and the whole family headed out to ...

Astronomy professor Emily Levesque looks out at massive stars and back at history of her profession

Space plays an increasing role in our everyday lives, even though we might not always be aware of it. Orbiting spacecraft provide a number of services that enhance our quality ...

PERSPECTIVE: How universities can help counter space threats to national security

In San Francisco, we're finally starting to put away our masks. With 74% of the city's residents over 12 fully vaccinated, for the first time in more than a year we're enjoying walking, shopping, and ...

A Climate View From California

The answer she received was absolute ... Academic historians typically don't have an immediate impact on everyday life. Rossiter is the exception. In excavating the lives of forgotten women ...

Women in Science

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Argonne-driven technology is part of a broad initiative to answer fundamental questions about the birth of matter in the universe and the building blocks that hold it all together.

The Physics of Everyday Phenomena introduces students to the basic concepts of physics, using examples of common occurrences in everyday life. Intended for use in a one-semester or two-semester course in conceptual physics, this book is written in a narrative style, frequently using questions designed to draw the reader into a dialogue about the ideas of physics. This inclusive style allows the book to be used by anyone interested in exploring the nature of physics and explanations of everyday physical phenomena. Beginning students will benefit from the large number of student aids and the reduced math content. Professors will appreciate the organization of the material and the wealth of pedagogical tools. McGraw-Hill Education's Connect, is also available as an optional, add on item. Connect is the only integrated learning system that empowers students by continuously adapting to deliver precisely what they need, when they need it, how they need it, so that class time is more effective. Connect allows the professor to assign homework, quizzes, and tests easily and automatically grades and records the scores of the student's work. Problems are randomized to prevent sharing of answers and may also have a "multi-step solution" which helps move the students' learning along if they experience difficulty.

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The Physics of Everyday Phenomena, Seventh Edition, introduces students to the basic concepts of physics using examples of common occurrences in everyday life. Intended for use in a one-semester or two-semester course in conceptual physics, this book is written in a narrative style, frequently using questions designed to draw the reader into a dialogue about the ideas of physics. This inclusive style allows the book to be used by anyone interested in exploring the nature of physics and explanations of everyday physical phenomena. Beginning students will benefit from the large number of student aids and the reduced math content.

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Professors will appreciate the organization of the material and the wealth of pedagogical tools.

Physics of Continuous Matter: Exotic and Everyday Phenomena in the Macroscopic World, Second Edition provides an introduction to the basic ideas of continuum physics and their application to a wealth of macroscopic phenomena. The text focuses on the many approximate methods that offer insight into the rich physics hidden in fundamental continuum mechanics equations. Like its acclaimed predecessor, this second edition introduces mathematical tools on a "need-to-know" basis. New to the Second Edition This edition includes three new chapters on elasticity of slender rods, energy, and entropy. It also offers more margin drawings and photographs and improved images of simulations. Along with reorganizing much of the material, the author has revised many of the physics arguments and mathematical presentations to improve clarity and consistency. The collection of problems at the end of each chapter has been expanded as well. These problems further develop the physical and mathematical concepts presented. With worked examples throughout, this book clearly illustrates both qualitative and quantitative physics reasoning. It emphasizes the importance in understanding the physical principles behind equations and the conditions underlying approximations. A companion website provides a host of ancillary materials, including software programs, color figures, and additional problems.

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frequently using questions designed to draw the reader into a dialogue about the ideas of physics. This inclusive style allows the book to be used by anyone interested in exploring the nature of physics and explanations of everyday physical phenomena.

Eschewing the usual mathematical explanations for physics phenomena, this approachable reference explains complicated scientific concepts in plain English that everyone can understand. Tackling the big issues such as gravity, magnetism, sound, and what really happens in the Large Hadron Collider, this engaging look at physics also spells out why cats always land on their feet, why people appear to have red eyes in photographs, and the real danger of looking at an eclipse. For everyone who ever wondered how a light bulb works or how squirrels avoid electrocution on the power lines, this handbook supplies answers on the physics of everyday life and examines the developments in the exploration of subatomic particles. In addition to the question-and-answer section, an addendum of facts about physicists explains what the Nobel prize is and who has won it, and tells the story of the scientist who was incarcerated for agreeing with Copernicus. Answers more than eight hundred questions about physics, ranging from everyday life applications to the latest explorations in the field.

The instant New York Times bestselling book of entertaining, irreverent, and totally accessible illustrated answers to the scientific “questions you had no idea were bugging you all your life”

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(Fast Company), from the creators of the wildly popular YouTube channel AsapSCIENCE. Why do we get hung over? What would happen if you stopped sleeping? Is binge-watching TV actually bad for you? Why should I take a power nap? In their first-ever book, Mitchell Moffit and Greg Brown, the geniuses behind the YouTube channel AsapSCIENCE, explain the true science of how things work in their trademark hilarious and fascinating fashion. Applying the fun, illustrated format of their addictive videos to topics ranging from brain freeze to hiccups to the science of the snooze button, AsapSCIENCE takes the underpinnings of biology, chemistry, physics, and other hard sciences and applies them to everyday life through quirky and relatable examples that will appeal to both science nerds and those who didn't exactly ace chemistry. This is the science that people actually want to learn, shared in a friendly, engaging style. "Science is big fun. The ASAP guys get that, and they'll show you—they'll even draw you a diagram" (Bill Nye, "The Science Guy"). And amid the humor is great information and cocktail conversation fodder, all thoughtfully presented. Whether you're a total newbie or the next Albert Einstein, this guide is sure to educate and entertain...ASAP.

If the descriptive text you're using for teaching general chemistry seems to lack sufficient mathematics and physics to make the results of its presentation of classical mechanics, molecular structure, and statistics understandable, you're not alone. Written to provide supplemental and mathematically challenging topics for the advanced lower-division undergraduate chemistry course, or the non-major, junior-level physical chemistry course, *The Physical Basis of Chemistry* will offer your students an opportunity to explore quantum mechanics, the Boltzmann distribution, and spectroscopy in a refreshingly compelling way.

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Posed and answered are questions concerning everyday phenomena: How can two discharging shotguns and two stereo speakers be used to contrast particles and waves? Why does a collision between one atom of gas and the wall of its container transfer momentum but not much energy? How does a microwave oven work? Why does carbon dioxide production heat the earth? Why are leaves green, water blue, and how do the eyes detect the difference? Unlike other texts on this subject, however, *The Physical Basis of Chemistry* deals directly with the substance of these questions, avoiding the use of predigested material more appropriate for memorization exercises than for actual concrete learning. The only prerequisite is first-semester calculus, or familiarity with derivatives of one variable. Provides a concise, logical introduction to physical chemistry Features carefully worked-out sample problems at the end of each chapter Includes more detailed and clearly explained coverage of quantum mechanics and statistics than found in other texts Available in an affordable paperback edition Designed specifically as a supplementary text for advanced/honors chemistry courses Uses SI units throughout

What makes ice cubes cloudy? How do shark attacks make airplanes safer? Can a person traveling in a car at the speed of sound still hear the radio? Moreover, would they want to...? Do you often find yourself pondering life's little conundrums? Have you ever wondered why the ocean is blue? Or why birds don't get electrocuted when perching on high-voltage power lines? Robert L. Wolke, professor emeritus of chemistry at the University of Pittsburgh and acclaimed author of *What Einstein Didn't Know*, understands the need to...well, understand. Now he provides more amusing explanations of such everyday phenomena as gravity (If you're in a

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falling elevator, will jumping at the last instant save your life?) and acoustics (Why does a whip make such a loud cracking noise?), along with amazing facts, belly-up-to-the-bar bets, and mind-blowing reality bites all with his trademark wit and wisdom. If you shoot a bullet into the air, can it kill somebody when it comes down? You can find out about all this and more in an astonishing compendium of the proverbial mind-boggling mysteries of the physical world we inhabit. Arranged in a question-and-answer format and grouped by subject for browsing ease, WHAT EINSTEIN TOLD HIS BARBER is for anyone who ever pondered such things as why colors fade in sunlight, what happens to the rubber from worn-out tires, what makes red-hot objects glow red, and other scientific curiosities. Perfect for fans of Newton's Apple, Jeopardy!, and The Discovery Channel, WHAT EINSTEIN TOLD HIS BARBER also includes a glossary of important scientific buzz words and a comprehensive index. -->

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