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October 2025

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Preface

The Library and Documentation Division (LDD) of the National Council of Educational Research and Training (NCERT), serves as a crucial hub for information, research, and academic resources, supporting the diverse needs of educators, researchers, and policy-makers in education. Established to foster an environment conducive to educational excellence and innovation, LDD plays a pivotal role in the dissemination of knowledge and the promotion of advanced learning in the field of academic research. LDD is recognized for its hybrid collection of old and new print collections of books, journals, reports, and other reference collections.

LDD subscribes to a variety of journals on the recommendation of concerned departments and esteemed faculty members of NCERT on related subjects of research like economics, education, psychology, educational research, gender studies, geography, linguistics, mathematics education, physics, science, social science, teacher education, value education, etc.

With the mandate of Prof. Dinesh Prasad Saklani, the Hon'ble Director, NCERT, the Library and Documentation Division executes several specialized services for its patrons known as *edudoc services*. In this edition of "EDUDOC SERVICES: CURRENT CONTENT," the LDD has delved into and presented a compilation of content pages of the recommended journals by the departments available through ONOS for the month of October 2025. The service facilitates connecting academicians with published articles in journals. For all the journals a hyperlink has also been provided for ease of navigation to the digital contents of the journals. Library and Documentation Division (LDD) at NCERT cordially invites academicians to explore and utilize our extensive collection of the recommended print journals and the journal available through ONOS. Suggestions are solicited to spruce up the library services better in honor of effectively and efficiently serving the academic community.

(Dr. Akash)
Head, LDD
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4	Curriculum Inquiry	55	1	-	2025	13-17	Online
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Issue 4

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 Christopher DeLuca
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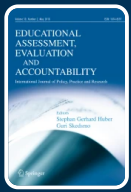
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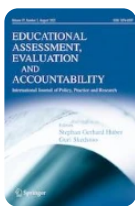
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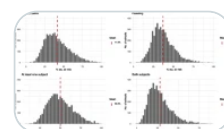
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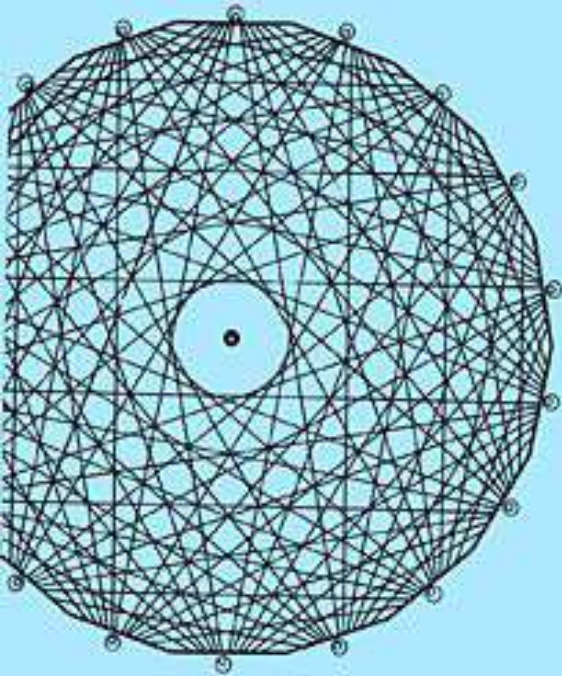


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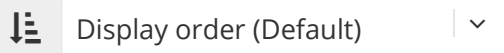
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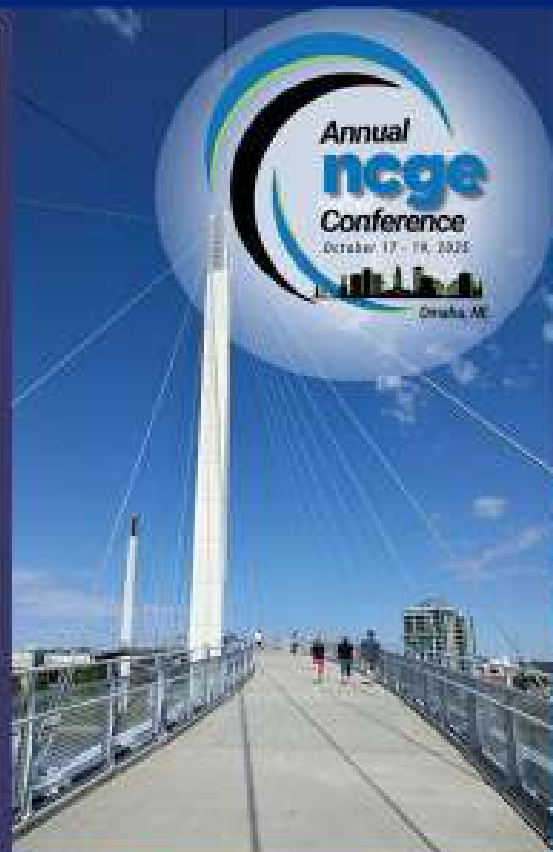
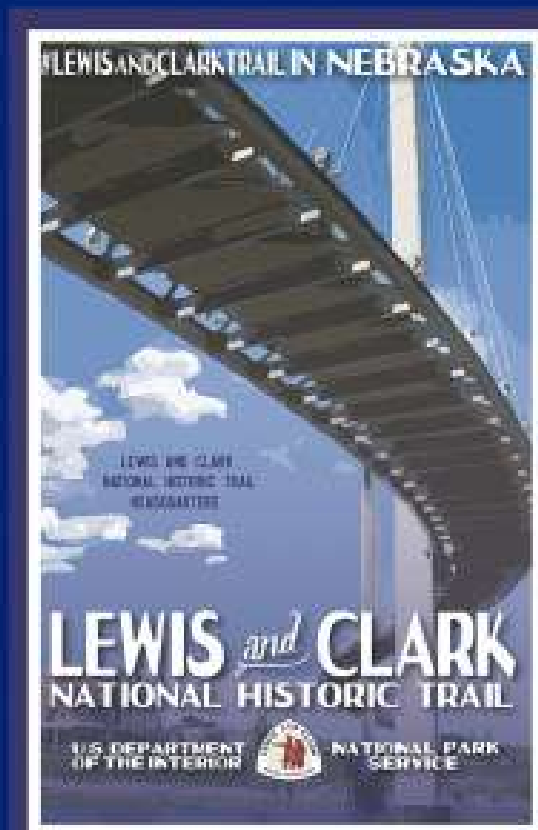
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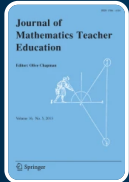
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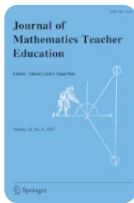
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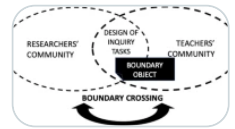
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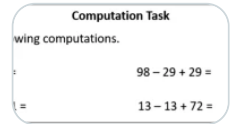
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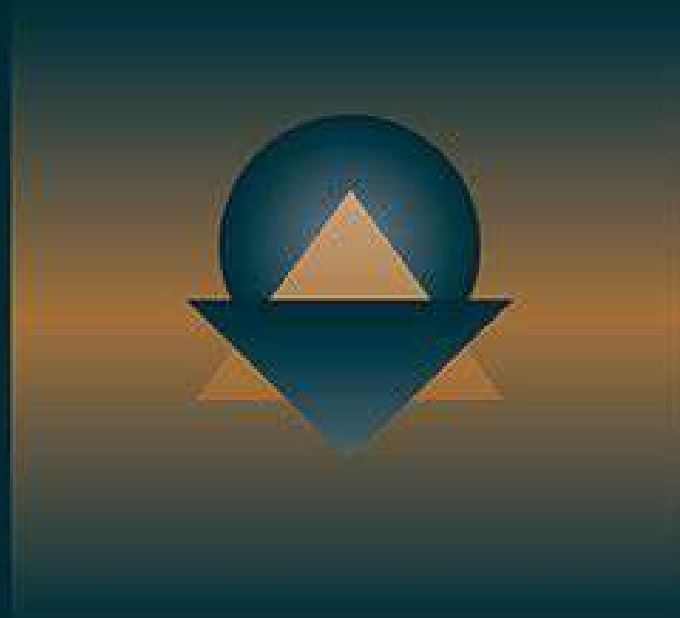


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Ilana Seidel Horn

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Mathematical literacy in context >

Learning and teaching for mathematical literacy: making mathematics useful for everyone, by Hugh Burkhardt, Daniel Pead and Kaye Stacey, *IMPACT (Interweaving Mathematics Pedagogy and Content for Teaching) series*, Routledge, 2024, x+294 pp., \$39.95 (Paperback), ISBN 9781032301174

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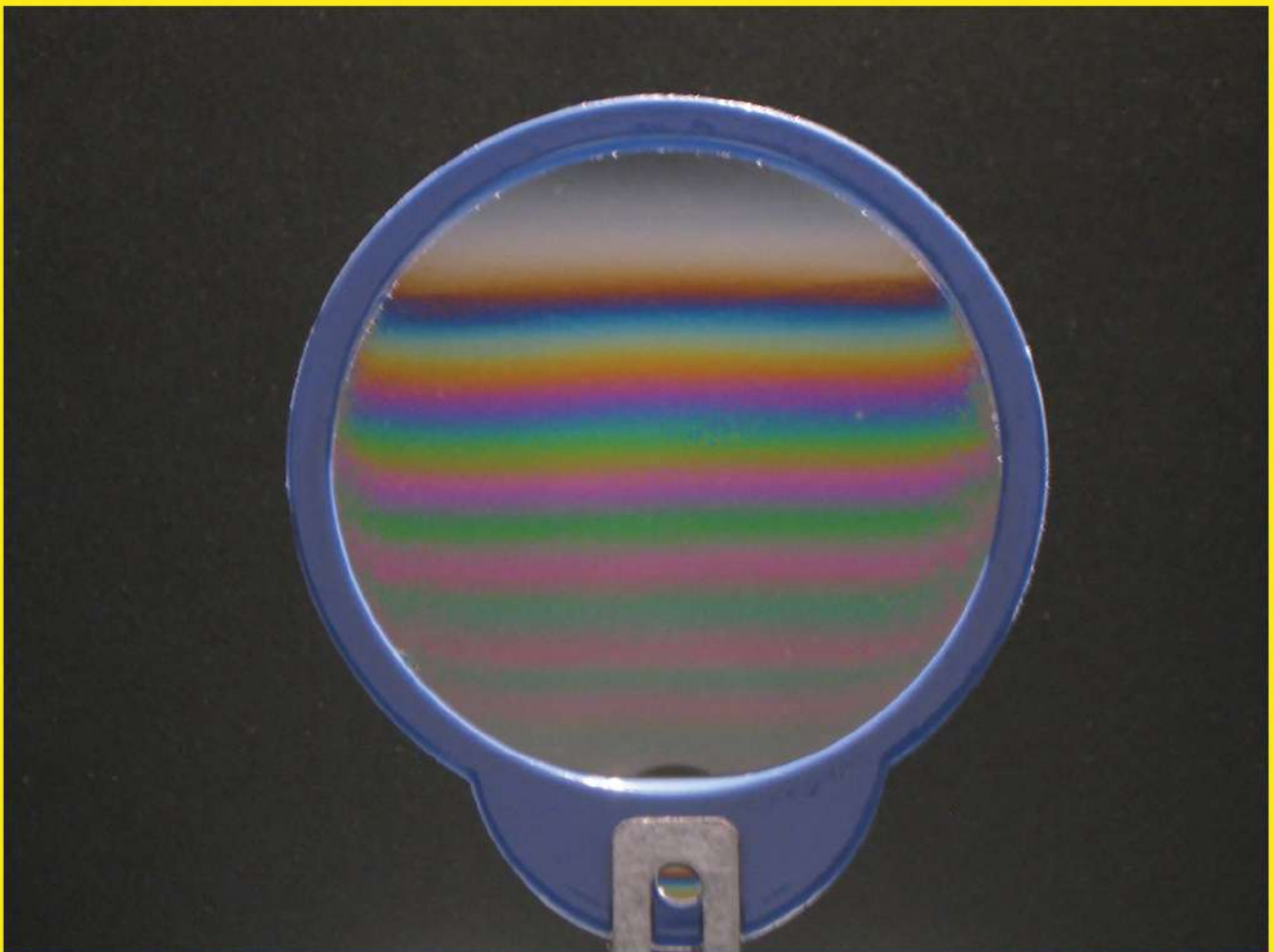
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Am. J. Phys. 93, 849–850 (2025) <https://doi.org/10.1119/5.0304025>

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[Keith Zengel](#); [Hong-An Luu](#); [Samuel Stollman](#)

Am. J. Phys. 93, 859–864 (2025) <https://doi.org/10.1119/5.0279843>

Editor's Note: Water clocks go back to antiquity, using a container shaped so that its water level rises or falls at a constant rate to mark the passage of time. This paper describes an experiment where a flexible clear plastic tube is bent at an angle to the vertical; with the correct bending, a steady flow rate can be achieved. The paper presents the mathematical analysis of the flow and experimental results obtained with smartphone videos. The experiment can be conducted by students in a single laboratory session, during which they can test different tube shapes. Appropriate for both introductory and advanced students.

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Matter, interaction, and change: A framework for an integrated approach to teaching introductory physics 🍷

[Eugene Hecht](#)

Am. J. Phys. 93, 865–873 (2025) <https://doi.org/10.1119/5.0173764>

Editor's Note: Our understanding of matter and mass has fundamentally changed several times over the last few centuries. The concept of atoms was introduced by ancient Indian and Greek philosophers, developed more formally by Boltzmann in the late 19th century, and was only considered proven by Perrin in 1908. Thomson showed that electrons were particles in 1897, while Rutherford showed the same for nuclei in 1911. This prompted Bohr's "solar-system" atomic model, which lasted only until de Broglie proposed the concept of "matter waves" and Schrodinger's 1925 wave equation, which supplanted Bohr's heuristic. So matter is particles, but particles are actually waves. Meanwhile, at the other end of the length scale, relativity was being invented, with Einstein showing in 1905 that mass was actually energy. And yet most introductory textbooks give centuries-old classical definitions such as "mass is the quantity of matter," while

thermodynamics, quantum, and relativity textbooks often develop them in very different ways. How should these foundational concepts be properly taught in early physics courses and across fields? This paper discusses the philosophical issues and proposes a consistent scheme.

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Energy needed to propel a tiny spacecraft to Proxima Centauri EP FREE

[C. J. Umrigar](#); [Tyler A. Anderson](#)

Am. J. Phys. 93, 874–880 (2025) <https://doi.org/10.1119/5.0263298>

Editor's Note: Could we send a spacecraft to another star? Sending a person to the nearest star is the stuff of science fiction. But it turns out that sending a 2 g spacecraft, while not possible with current technology, is perhaps within reach. To do this, we could shine a powerful laser on the spacecraft's sail, accelerating it to perhaps 0.2c. How much light energy would be required? This paper shares the details that will allow students in an introductory course on special relativity to calculate the answer.

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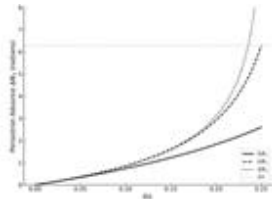
A Lorentz force law with velocity differences EP

[Rinke J. Wijngaarden](#)

Am. J. Phys. 93, 881–886 (2025) <https://doi.org/10.1119/5.0261338>

Editor's Note: Many students struggle to understand the electric fields associated with moving magnets, even though the Lorentz force law applies in any reference frame. This article shows how common errors arise and presents a simple, intuitive reformulation of the Lorentz force law that helps

avoid such mistakes. The examples and “paradoxes” are well-suited for introductory and intermediate electrodynamics courses, offering opportunities for classroom discussion and fresh insight into the fields of moving magnets.

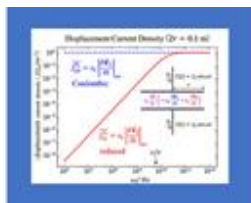
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A very simple derivation of the periastron advance to all post-Newtonian orders of perturbation in Schwarzschild geometry

Steven A. Balbus

Am. J. Phys. 93, 887–890 (2025) <https://doi.org/10.1119/5.0273160>

Editor's Note: Explaining the advance of orbital perihelion was one of the major early successes of the theory of general relativity, and it remains a fixture of GR courses at the advanced undergraduate and graduate level. However, this explanation has not been something we could share in earlier physics courses. This paper presents a simple mathematical technique that will allow instructors in lower level undergraduate courses to share an interactive analysis of an orbital perihelion advance that can be calculated with arbitrary accuracy. One immediate noteworthy application is the analysis of this advance for stars orbiting the black hole at our galactic center.

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Frequency dependence of the displacement current density

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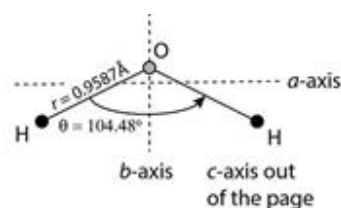
Toshio Hyodo

Am. J. Phys. 93, 891–896 (2025) <https://doi.org/10.1119/5.0237905>

Editor's Note: The standard teaching sequence for electromagnetism is elegant, but it can easily lead to confusion. Students usually learn, by considering a charging capacitor, that a changing electric field induces a magnetic field. Then they learn that a changing magnetic field induces an electric field, and that these induced fields result in electromagnetic waves. But they usually do not re-consider the charging capacitor in light of the induced electric field. This paper provides a clear explanation of displacement currents in a capacitor in an AC circuit, examining the relative sizes of the Coulomb field and the induced field in creating displacement currents. It will make a nice addition to upper-level electromagnetism courses.

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ADVANCED TOPICS



Quantum description of the asymmetric top using average and relative coordinates in an operator-based formalism

E. Toprak; Dominika Zgid; J. K. Freericks

Am. J. Phys. 93, 897–904 (2025) <https://doi.org/10.1119/5.0258534>

Editor's Note: This paper shares an operator-based approach to calculating the rotational spectra of asymmetric tops, clarifying the relationship between the lab frame and the body-fixed frame. This approach could be used in a graduate-level course on quantum mechanics or molecular spectroscopy, and suggested student activities are included in the paper.

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NOTES AND DISCUSSIONS

What is the maximum radius of cold planets? **FREE**

David Garfinkle; Alberto G. Rojo

Am. J. Phys. 93, 905–907 (2025) <https://doi.org/10.1119/5.0226963>

Editor's Note: Planets with no internal or external sources of energy have maximum radii on the order of that of Jupiter. What physics dictates this? This paper develops a variational model of a pure-hydrogen planet very similar to that used to estimate the Bohr radius for the hydrogen atom to determine how this maximum depends on electrostatic and gravitational constants; results are in good agreement with more sophisticated models. Appropriate for students familiar with modern physics and astrophysics.

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INSTRUCTIONAL LABORATORIES AND DEMONSTRATIONS



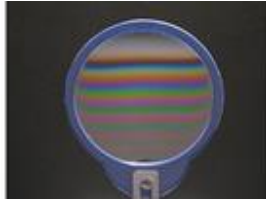
A Raspberry Pi-based compact, portable, inexpensive IR viewer for the advanced optics undergraduate laboratory 🗑

[Chanakya Pandya](#); [Yuki Brown](#); [Caden McCollum](#); [Reese Tyra](#); [Nikolus Miller](#); [Muhammed Khan](#); [Catherine Kasicki-Rodriguez](#); [Sara McGinnis](#); [Samir Bali](#)

Am. J. Phys. 93, 908–913 (2025) <https://doi.org/10.1119/5.0251130>

Editor's Note: In this paper, the authors present a novel way to construct an infrared viewer using inexpensive components and give step-by-step instructions for assembly and operation. Comparison of this homebuilt viewer's performance to a commercial IR viewer and night vision goggles is given, along with laboratory applications in which the IR viewer can be used, including acquiring photos of alkali-atom fluorescence and imaging an infrared laser beams passage through tabletop optics. Students can construct this IR viewer as an educational project and the assembled device is well-suited for use in advanced instructional and research laboratories

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Color and thickness of soap films 🛒

[Marcello Carlà](#); [Giuseppe Molesini](#); [Samuele Straulino](#)

Am. J. Phys. 93, 914–924 (2025) <https://doi.org/10.1119/5.0275602>

Editor's Note: This paper describes a thin-film interference experiment on soap films under both monochromatic and polychromatic light illumination. Using a simple experimental setup, data are acquired by a color digital camera, yielding red-, green-, and blue-filtered images of interference fringes. A method based on elementary optics concepts is presented and used to analyze the acquired data, with the primary purpose of accurately determining the thickness profile of a vertically oriented soap film. A more in-depth analysis method is also given in the Appendix. The authors have provided a resource that can be adapted to a variety of levels in physics education, from secondary school and introductory college classrooms to the advanced instructional laboratory.

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Smadar Levy, Bat-Sheva Eylon, Esther Bagno and Edit Yerushalmi



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Dilber Demirtaş, Ufuk Yildirim and Ömer Faruk Özdemir

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ANNUAL CAREERS ISSUE

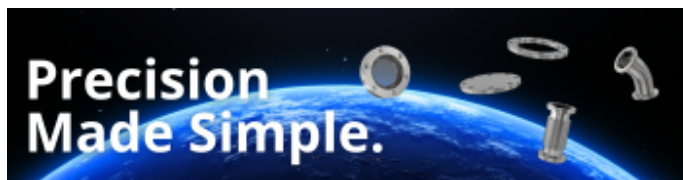


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About the Cover

Many students in the physical sciences may perceive academia as the default career path. But a majority of people with degrees in physics (and related fields) go into the private, public, and nonprofit sectors. This year's careers issue explores eight diverse journeys into nonacademic jobs, skills in demand for private-sector positions, and ways that professional societies can help early-career scientists as they embark

on their journeys in both nonacademic and academic settings. (Design by Masie Chong with artwork adapted from iStock.com artists ilyaliren, SpicyTruffel, VectorMine, appleuzr, spiralmedia, fleaz, Margi, and Giorgi Gogitidze.)

Editorial

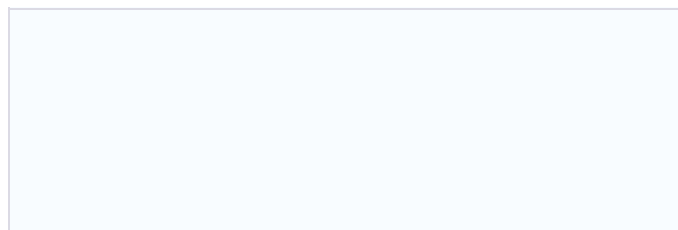
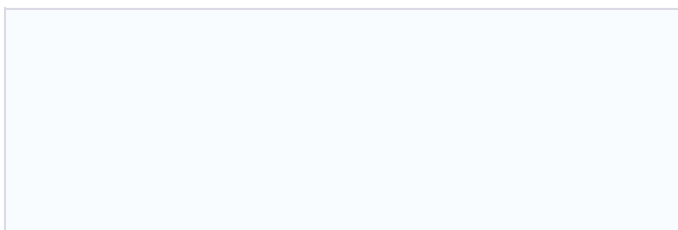


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Career choices in uncertain times

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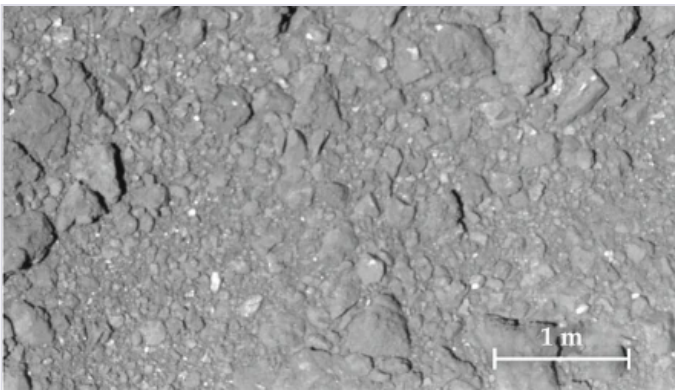
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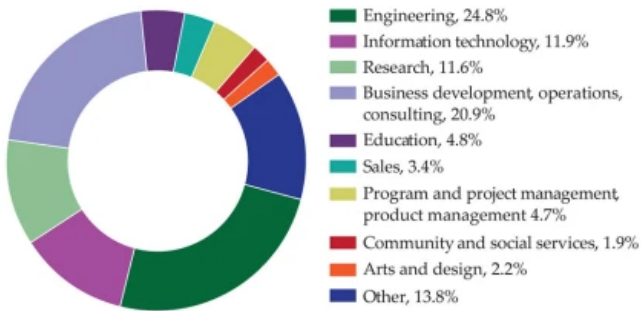
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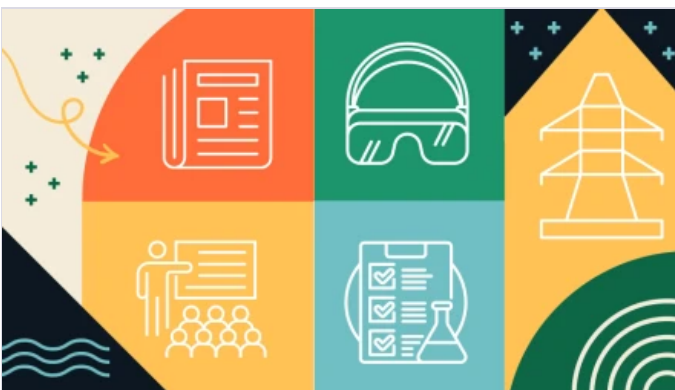


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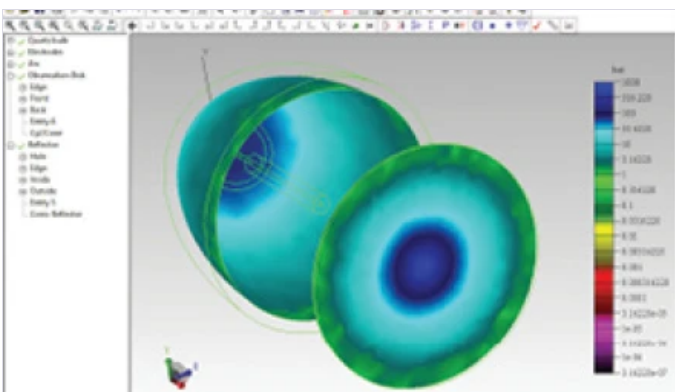


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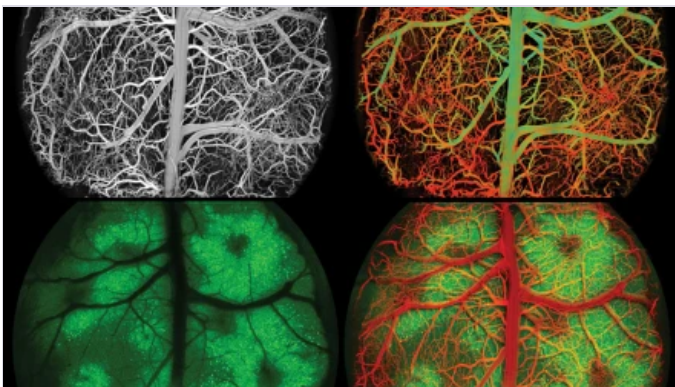


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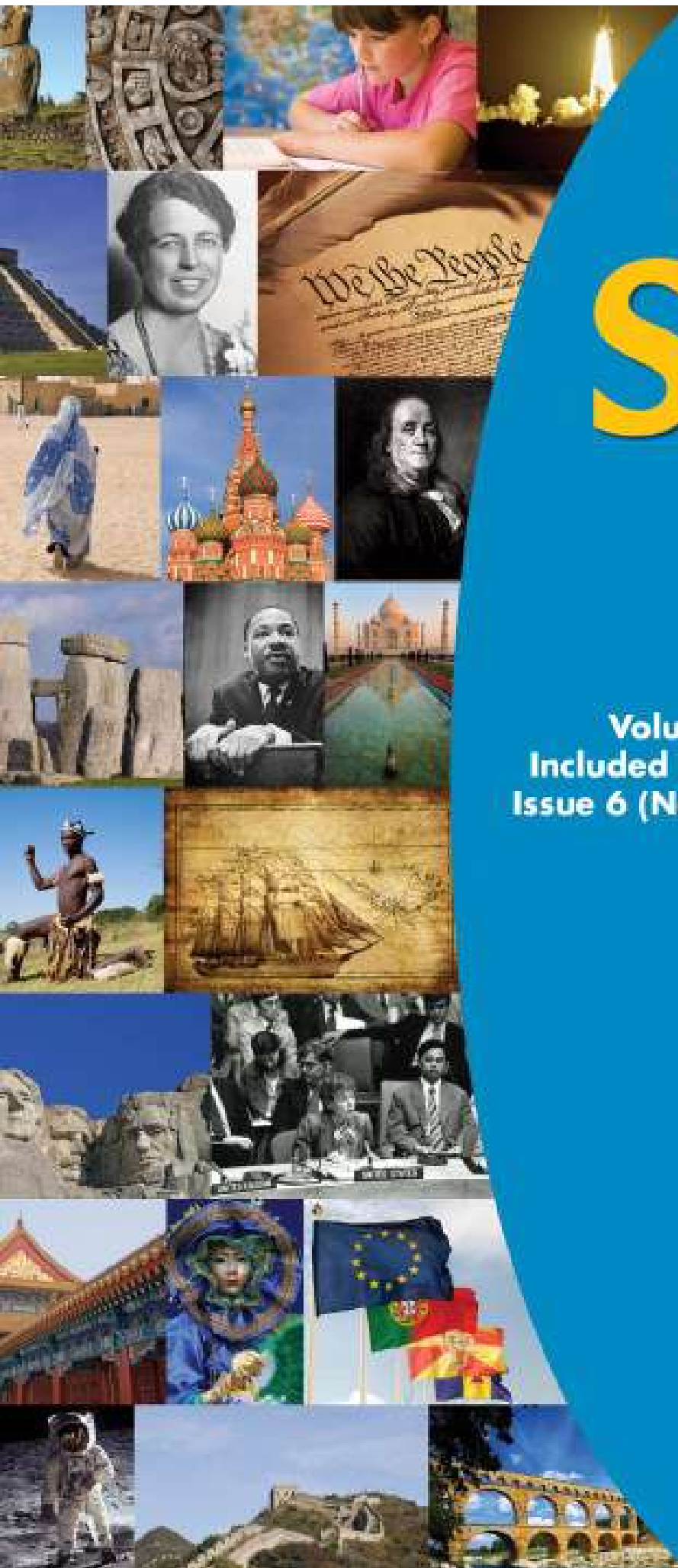
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