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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.

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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 December 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)
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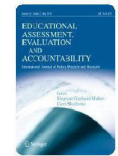
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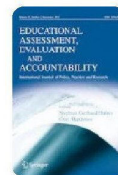
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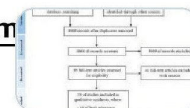
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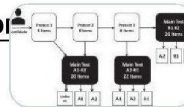
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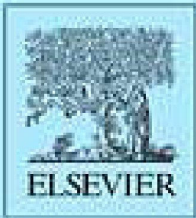


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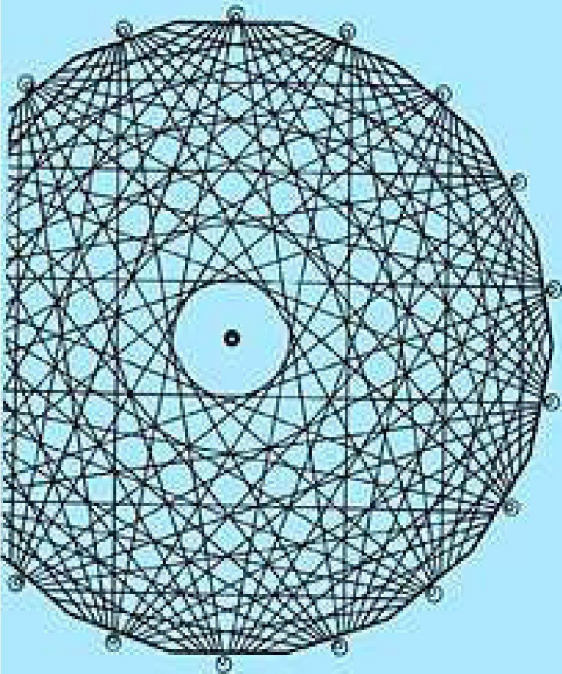


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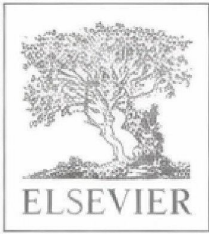
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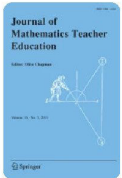
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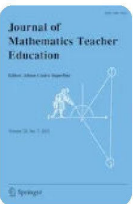
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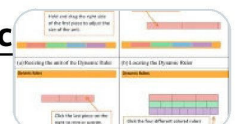
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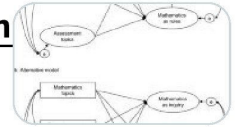
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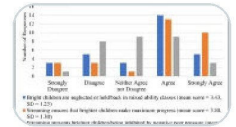
OriginalPaper | Open access | 17 May 2024 | Pages: 1541 – 1566

An examination of pre-service mathematics teachers' course-taking, beliefs, and preferred assessment practices



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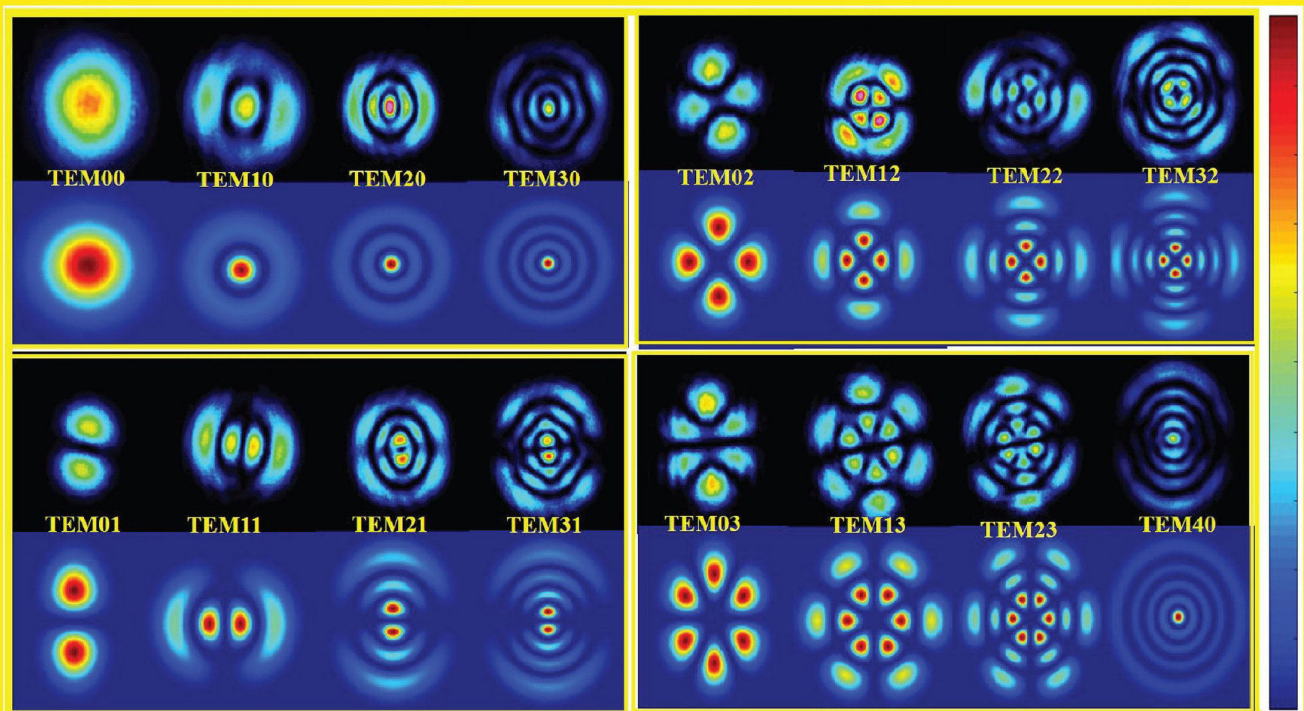
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Whose phenomena count? Phenomenological framing, epistemological authority, and the pursuit of justice in mathematics teacher education research

Editorial | Open access | 27 October 2025 | Pages: 1659 – 1676

AMERICAN JOURNAL *of* PHYSICS

Volume 94, No. 1, January 2026



A PUBLICATION OF THE AMERICAN ASSOCIATION OF PHYSICS TEACHERS

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EDITORIAL

In this issue: January 2026 **FREE**

[John Essick](#); [Jesse Kinder](#); [Beth Parks](#); [B. Cameron Reed](#); [Keith Zengel](#)

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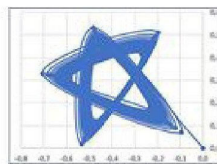
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LETTERS TO THE EDITOR



A surprise to many physicists: Excel can handle complex numbers 🗨

[Ole Anton Haugland](#)

Am. J. Phys. 94, 7–8 (2026) <https://doi.org/10.1119/5.0305509>

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The CUBE virtual reality immersion **FREE**

[L. Estridge](#); [J. Franklin](#)

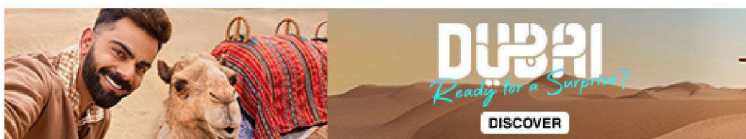
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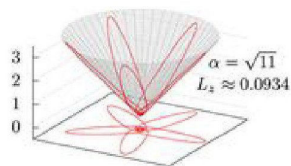
Editor's Note: This paper is the text of a plenary talk given by the author at the AAPT Summer 2025 meeting in recognition of her award of PhysTEC Teacher of the Year.

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PAPERS



Analyzing motion on a surface of revolution using the effective analogous potential energy function [▶ VIDEO](#)

[Todd K. Timberlake](#); [Hayden McGuire](#); [Robert Mbenoun Mahend](#)

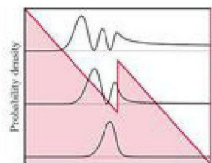
Am. J. Phys. 94, 16–24 (2026) <https://doi.org/10.1119/5.0281493>

Editor's Note: In dynamics problems where a particle is constrained to move on a surface of revolution that is symmetric about the vertical (z) axis, conservation of the z -component of angular momentum allows the problem to be reduced to a single radial dimension analogous to the way that central-force problems can be treated with an effective potential energy function. This paper develops a general “effective analogous potential energy function” for surface-of-revolution problems, and applies it to finding the condition for and stability of circular orbits for a variety of surfaces including general power law, conical, paraboloid, inverse-power, logarithmic, and hemispherical bowls. This can be a rich source of examples and exercises for students in advanced dynamics classes.

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Resonant scattering and quasibound states with Airy functions [EP](#)

[Thomas Neuling](#)

Am. J. Phys. 94, 25–32 (2026) <https://doi.org/10.1119/5.0285379>

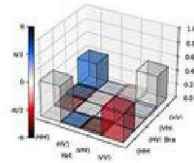
Editor's Note: Step functions and square wells are familiar to all students of quantum mechanics. Linear potentials and Airy functions are another common application of the Schrödinger equation. In this paper, the authors combine and extend these familiar models to include complex potentials. Analytic solutions and numerical studies reveal interesting scattering phenomena: absorption, resonant reflection, and quasibound states. An appendix on Airy functions and a supplementary Jupyter notebook make the article a self-contained unit appropriate for an advanced undergraduate or graduate course in quantum mechanics or math methods.

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Density operators and quantum tomography for optimizing a Bell parameter measurement in the graduate laboratory

Alban Leschallier de Lisle; Melissa Kleine; Nicolas Ombredane; Sébastien Massenot; Renaud Mathevet; Benoit Chalopin

Am. J. Phys. 94, 33–39 (2026) <https://doi.org/10.1119/5.0280007>

Editor's Note: Quantum state tomography, a well-established research tool, is a natural extension to investigations of Bell inequalities that are often performed in advanced undergraduate and graduate laboratories. Moreover, quantum state tomography provides valuable insight for students into the nature of the density matrix. This paper shows how students can perform these measurements and then use their results to understand and optimize the Bell-CHSH parameter.

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From pixels to patterns: Decoding smartphone display properties through diffraction, reflection, and refraction

Mamatha Ramanjineyulu Maddur; Hemansh Shah; Praveen Pathak

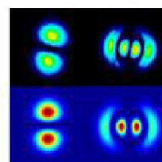
Am. J. Phys. 94, 40–50 (2026) <https://doi.org/10.1119/5.0203616>

Editor's Note: Are your students looking at their phones too much during class? These authors have a new solution to your problem: have them study the physical properties of their phone displays! By shining a laser pointer at their black screens, students can create diffraction patterns that reveal the pixel array structure and screen glass thickness. If they want to see their pixels in action, show them how to use a drop of water as a magnifying glass. These experiments are adaptable to all levels of undergraduate physics education.

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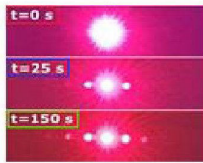


Laser beams in Fabry–Perot cavities with circular apertures

Jian Zhao; Yuxin Zhai; Hanzhong Wu; Jing Li

Am. J. Phys. 94, 51–57 (2026) <https://doi.org/10.1119/5.0271827>

Editor's Note: This paper provides both the theoretical background and the experimental design that are needed to create a laboratory exercise in which students explore the modes of a Fabry–Perot resonator bounded by circular apertures. It is appropriate for advanced undergraduate laboratory intended for students who have already studied resonators in an optics course.

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Recording holographic gratings in commercial photochromic sunglasses

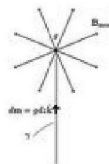
M. J. Garicano Nuez; A. Shaw Angulo; P. Vaveliuk; O. Martínez-Matos

Am. J. Phys. 94, 58–64 (2026) <https://doi.org/10.1119/5.0292886>

Editor's Note: This paper presents an affordable experiment that utilizes the photochromic polymer embedded in the lens of self-tinting sunglasses as a recording material for amplitude holographic gratings. In this approach, interference of blue light forms the grating by altering the recording material's local transparency through molecular excitation and the process is monitored by measuring the (non-exciting) red-light transparency. A concise theoretical background is given and applied both to the determination of important physical parameters and to the study of holographic grating behavior. The paper will be of interest to instructors preparing advanced laboratory experiments and independent projects for undergraduates, especially in specialized courses in optics.

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NOTES AND DISCUSSIONS



Coulomb force between two Dirac monopoles FREE

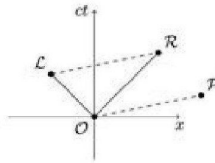
Alberto G. Rojo

Am. J. Phys. 94, 65–67 (2026) <https://doi.org/10.1119/5.0244845>

Editor's Note: The concept of magnetic monopoles was proposed almost a century ago by Paul Dirac. While no such entity has been detected, it remains a powerful theoretical concept, as the existence of even a single magnetic monopole in the universe would explain the quantization of electric charge. To avoid violating Maxwell's equations, Dirac's model involved the concept of an infinitely thin string-like solenoid. This paper shows that such strings will interact with each other with an inverse-square Coulomb-like force; this is done by modeling the monopoles as semi-infinite lines of magnetic dipoles. This analysis shows how to apply fundamental concepts in electromagnetism and would be appropriate for students in an upper-level undergraduate course.

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On the invariance of the spacetime interval FREE

[Marco Moriconi](#)

Am. J. Phys. 94, 68–71 (2026) <https://doi.org/10.1119/5.0192469>

Editor's Note: Graphical consideration of the spacetime interval between two events leads to a demonstration of its invariance, and once this invariance is demonstrated, then the Lorentz transformations follow. Instructors who wish to give students a geometric understanding of special relativity will want to use this approach.

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Hearing a Green's function FREE

[Douglas A. Kurtze](#)

Am. J. Phys. 94, 72–73 (2026) <https://doi.org/10.1119/5.0288905>

Editor's Note: This very brief paper shares a lesson plan for introducing the Green's function using the example of a hand clap as an impulse that is localized in time and space with a propagation that is governed by a differential equation (the wave equation). Students' familiarity with how this sound propagates can be leveraged to help them understand the Green's function more generally.

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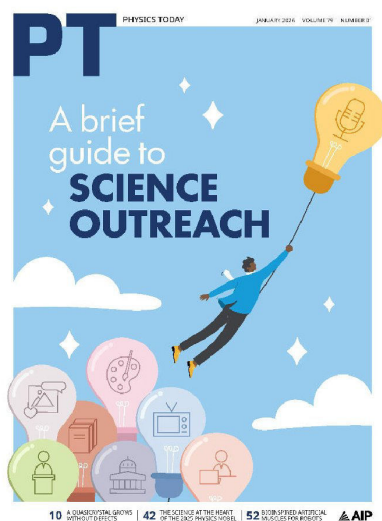
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Do you want to inspire younger generations to care about science? Persuade someone to fund your work? Fight the deluge of mis- and disinformation in society? If so, you might consider getting involved with science outreach. There are many possible audiences and many possible formats for reaching them: podcasts, artist collaborations, public talks, blogs, lobbying, books, and more. Don Lincoln's [feature article](#) can help you define your goals and pick an approach. (Cover design by Masie Chong using an image by iStock.com/ThongSam and icons by Freddie Pagani.)

Editorial

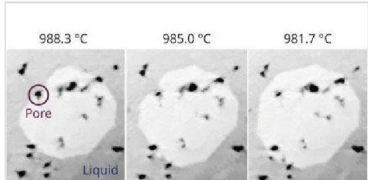


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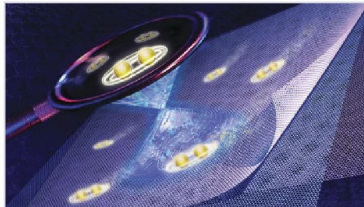
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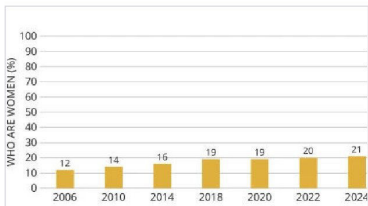
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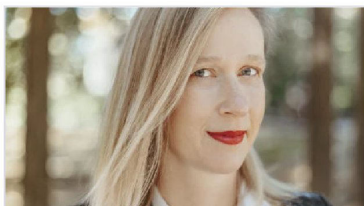
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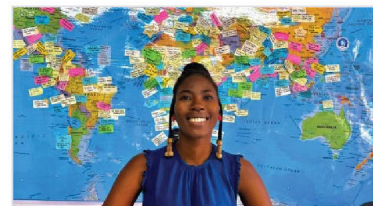
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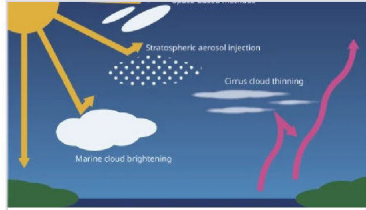
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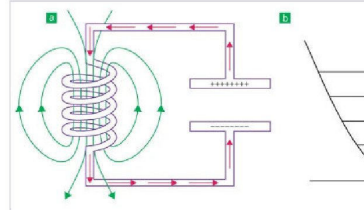
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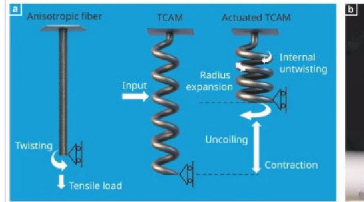


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Journal of Humanistic Psychology

Volume 66 Number 1 January 2026

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Psychology in the Schools

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Psychology *in the* Schools

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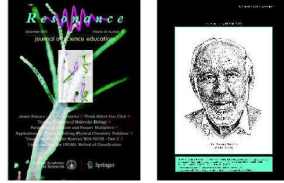
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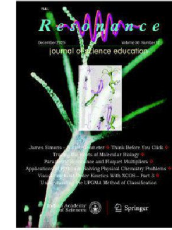


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