

EDUDOC SERVICE SERIES

EDUDOC SERVICES: CURRENT CONTENTS

Based on Journals subscribed by LDD, NCERT

SEPTEMBER 2024

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NATIONAL INSTITUTE OF EDUCATION
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Sri Aurobindo Marg, New Delhi - 110016
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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, education psychology, educational research, gender studies, geography, linguistics, mathematics education, physics, psychology, science, social science, teacher education, value education, etc.

With the mandate of Dr. 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 journals received in the library during September 2024. The service facilitates connecting academicians with published articles in journals. For the journals received in hybrid mode (Print+Online), 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 print journals. Suggestions are solicited to spruce up the library services better in honor of effectively and efficiently serving the academic community.

(Dr. Akash)
Head, LDD
NCERT, New Delhi

S.No.	Name of Journals	Volume no.	Issue	Month	Year	Page no.	Print or Online
Economics							
1	Economic & Political Weekly	59	34	24-Aug	2024	1	Print only
	Economic & Political Weekly	59	35	31-Aug	2024	3	Print only
	Economic & Political Weekly	59	36	7-Sep	2024	5	Print only
	Economic & Political Weekly	59	37	14-Sep	2024	7	Print only
2	The economist	452	9413	7-Sep	2024	9	Print only
	The economist	452	9414	14-Sep	2024	12	Print only
	The economist	452	9415	21-Sep	2024	15	Print only
3	The quarterly journals of economics	139	3	Aug	2024	18	Print only
Education psychology							
4	Cognitive psychology	152		Aug	2024	20	Print only
5	Educational psychology in practice	40	3	Sep	2024	21	Print+Online
6	Psychology in the schools	61	8	Aug	2024	22	Print only
Educational research							
7	International Journal of Educational Research	126		July	2024	26	Print only
8	Journal of Education for Teaching	50	3	June	2024	28	Print+online
	Journal of Education for Teaching	50	4	Sep	2024	31	Print+online
9	Assessment in education	31	2	April	2024	34	Print+online
10	Globalisation, Societies and Education	22	4	August	2024	36	Print+Online
Environmental Education							
11	International Research in Geographical and Environmental Education	33	3	Aug	2024	38	Print+online
Geography							
12	The Geography Teacher	21	2	April-June	2024	40	Print+online
13	Journal of Geography	123	2-3	March-June	2024	42	Print+online
Library Science							

14	Journal of Information and Knowledge	61	3	June	2024	44	Print only
15	Library Herald	62	1	March	2024	46	Print only
16	Library Herald	62	2	June	2024	48	Print only
Linguistics							
17	Language learning	74	3	Sep	2024	50	Print+online
18	Language Assessment Quarterly	21	3	July-Aug	2024	53	Print+online
Mathematics Education							
19	Mathematical Thinking and Learning	26	3	July-Sep	2024	55	Print+online
Physics							
20	American Journal of Physics	92	8	Aug	2024	57	Print only
21	Physics today	77	8	Aug	2024	59	Print only
22	Physics today	77	9	Sep	2024	61	Print only
23	Resonance	29	8	Aug	2024	63	Print+online
Science							
24	The journal of learning sciences	33	3	July-Aug	2024	66	Print+Online
25	Man and Life	50	1-2	Jan-June	2024	68	Print only
Social Science							
26	Social Scientist	52	6		2024	70	Print only
Teacher Education							
28	Teaching and Teacher Education	145		July	2024	71	Print only
	Teaching and Teacher Education	146		Aug	2024	73	Print only
	Teaching and Teacher Education	147		Sep	2024	75	Print only
	Teaching and Teacher Education	148		Oct	2024	77	Print only

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- Shrinking Government Jobs and Trivialising Reservation: What Does Data Tell Us?
- Democratic Backsliding in Myanmar

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- *India Is Broken: A People Betrayed, 1947 to Today*
- *Urdu Crime Fiction, 1890–1950: An Informal History*

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- Making Production-linked Incentive Scheme Work
- National Innovation System of India in a Comparative Perspective
- Does the Presence of Foreign Firms Help Technological Upgradation in Indian Firms?
- Economic Policy Uncertainty and Other Determinants of M&A Activity in the Indian Manufacturing Industry during 2003–20
- And more ...

CURRENT STATISTICS

India's Industrial Transformation

Eight papers focus on key issues pertinent in the context of fostering the manufacturing sector; enhancing its productivity and competitiveness; deepening India's integration with global value chains; and augmenting localisation of production through industrial policy interventions for the creation of decent jobs. The papers review the effectiveness of relevant policy and point to gaps, lessons, and directions. **pages 31–113**

Judicial Indiscipline

The Supreme Court's loss of moral authority and credibility over the last few years has been instrumental in the breakdown of judicial discipline across the country. **page 10**

Adivasi Martyrs and Symbolism

The state's celebration of Adivasi martyrs subordinates the Adivasis further, projecting them as docile citizens and not as owners of forests and territories or equal partners in modern politics. **page 13**

Trivialising the Reservation

Shrinkage in government jobs and widespread discrimination against Scheduled Castes and Scheduled Tribes in the private sector call for affirmative action policies in recruitment. **page 17**

Judicial Discipline and Judicial Authority

10 Recent instances of lower courts and tribunals outrightly ignoring orders of the Supreme Court point to a worrying breakdown of judicial discipline.
— *Alok Prasanna Kumar*

History, Adhikar and Appropriation of Adivasi Martyrs in Telangana

13 Narratives of Adivasi martyrdom have been transformed into memorials, leading to contestations on appropriation of Adivasi history. — *Bhangya Bhukya*

Shrinking Government Jobs and Trivialising Reservation

17 The shrinkage in government jobs has impacted Scheduled Castes and Scheduled Tribes disproportionately, given widespread discrimination in the private sector. — *Akhil Alha*

Democratic Backsliding in Myanmar

22 In Myanmar, the military holds sway over the country's political identity and governs the population without regard for ethical norms.
— *Manzoor Ahmad Padder, Sanjeda Warsi*

India's Industrial Transformation

31 Eight papers examine contemporary issues in strengthening India's manufacturing sector, deepening integration with global value chains and augmenting localisation of production through industrial policy interventions. — *Nagesh Kumar*

Dynamics and Determinants of Fragmentation Trade

39 The dynamics of fragmentation trade in major Asian countries from 1962 to 2018 is examined, focusing on the role of network products within global value chains. — *C Veeramani, Garima Dhir*

Do Import Tariffs Increase Domestic Production?

50 This paper explores the responsiveness of imports to tariff hikes and investigates its effect on India's production, value added and participation in global value chains. — *Deeparghya Mukherjee*

Making Production-linked Incentive Scheme Work

61 While high growth and skilled labour absorption is observed in PLI industries, slow employment growth, limited exports, lack of input variety and reliance on imports for inputs merit attention. — *Sunitha Raju, Charulika Sharma*

National Innovation System of India in a Comparative Perspective

72 India's national innovation system is analysed against China, Germany, Korea and Brazil. While India serves as the low-cost R&D centre for foreign multinational companies, this alone is insufficient to move India to a high-income stage. — *Keun Lee, Jinhee Kim & Joonyup Kim*

Technological Upgradation in Indian Firms

80 Employing citation data to track technology spillovers, this paper proposes three channels of knowledge spillovers among domestic and foreign firms.
— *Ruchi Sharma, Hariom Arora & Suma Athreye*

Economic Policy Uncertainty of M&A Activity

89 In addition to industry-specific factors, macroeconomic conditions are important determinants of M&A activity and require adequate regulatory attention.
— *Rakesh Basant, Pulak Mishra*

Boosting Labour-intensive Manufacturing in India

96 A comparative analysis of India's labour-intensive manufacturing highlights its vital role in the structural transformation of the Indian economy.
— *Ashwani Bishnoi, Ranjan Kumar Dash, Bhavesh Garg & Pravakar Sahoo*

The Limits to Growth of India's Garment Industry

107 Reluctance to modernise firms and undue focus on the limited growth possibilities offered by cheap labour are major barriers to progress.
— *Chinju Johny, Jayan Jose Thomas*

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- The American Spy Agency and the Indian Subcontinent

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- E P Thompson (1924–93): Religion and the Unmaking of the English Working Classes
- Internalising Externalities: A Theoretical Analysis And more ...

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- *Agrarian Poverty in Colonial Uttar Pradesh: The Dufferin Inquiry, 1887–1888*

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- NFHS in India: A Reflection on the Journey
- Data Collection and Quality Concerns for NFHS in India: Insights from Five Waves, 1993–2021
- Violence against Women in India
- Paternal Migration and Child Stunting in India: An Analysis of NFHS-5 Data
- Social Determinants of Anaemia Speak
- Assessing Geographical and Contextual Vulnerability of Reproductive, Maternal, Child and Adolescent Health in North East India

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National Family Health Survey-5

This special issue critically examines the validity and reliability of the National Family Health Surveys and highlights the diversity across several demographic and health outcomes, its regional disparities, policy impacts, and new avenues of using data. [pages 33–80](#)

South Asian Crisis and the US

The allegations of American involvement in Bangladesh serve as a stark reminder to India's strategic community of the need to carefully consider the US presence in its neighbourhood. [page 10](#)

Religion and the Working Class

E P Thompson's work displays a deep ambivalence about the place of religion in the life of the past and the present. [page 13](#)

Donkey Migration

The pursuit of a lavish life in developed countries pushes youngsters to undertake a perilous journey, which turns out to be a sham. [page 27](#)

The American Spy Agency and the Indian Subcontinent

10 The allegations of American involvement in Bangladesh serve as a stark reminder to India's strategic community of the need to carefully consider the us presence in its neighbourhood. — *Atul Bhardwaj, Md Chingiz Khan*

Religion and the Unmaking of the English Working Classes

13 For historians, E P Thompson's works were a clarion call to change the world while engaging with what needed to be preserved. — *Dilip M Menon*

Internalising Externalities: A Theoretical Analysis

16 Reconciling the disparities between classical and contemporary literature on the strategies employed for internalising externalities, it explores various internalisation techniques. — *Rachel Batra*

Prioritising Post-maternal Health Literacy

19 A reflection on the socio-economic and cultural barriers to health literacy among working-class women in India and the need for comprehensive, community-focused programmes are discussed. — *Bidisha Banerjee, Archana Srivastava & Anandita Mitro*

'Donkey' Migration from Haryana

27 The attempts of Haryana's youth to "donkey" their way out for a perceived luxurious life in destination nations throw light on a multifaceted reality of socio-economic inequality. — *Reema Gill, Sneha Maji & Sanjeet*

National Family Health Survey-5

33 Six papers investigate trends from the National Family Health Surveys. — *S Irudaya Rajan*

National Family Health Surveys in India: A Reflection

40 The paper discusses a few areas of non-sampling errors that are crucial in maintaining the sanctity of the NFHS estimates. It also presents alternative methods to estimate certain parameters for monitoring family planning and maternal and child healthcare. — *Tarun Kumar Roy*

Data Concerns for National Family Health Surveys

44 A comprehensive update on the data collection and quality concerns for all five waves of NFHS, with a special focus on NFHS-5, is presented. Considerable rethinking is still required in the selection of survey organisations, sample size, and the number of questions. — *S Irudaya Rajan, Sunil Rajpal*

Violence against Women in India

52 A comparison of the incidence of violence against women, as measured in the NFHS, to the reporting of violence, as compiled by the National Crime Records Bureau is presented. Heterogeneity in incidence and reporting across India's states is highlighted. — *Kanika Sharma, Aashish Gupta*

Paternal Migration and Child Stunting

57 This study explores the relationship between paternal informal migration and nutritional status of children in India using data from the NFHS-5. — *Aravinda Meera Guntupalli, Kirti Gaur, Edwin Amalraj Raja & Kunal Keshri*

Social Determinants of Anaemia Speak

66 The NFHS-5 offers rich data on social determinants of health, which, if addressed, could go a long way in reducing the prevalence of nutritional anaemia in India. Doing away with data on anaemia would be a blunder and takes away the opportunity to address a condition that has a significant clinical, social and economic impact. — *Sylvia Karpagam*

Assessing Vulnerability of Health in the North East

72 An evaluation of the various geographical vulnerabilities and their association with reproductive, maternal, newborn and child health outcomes in North East India are undertaken. — *Anchal Purbey, A J Francis Xavier, Punit Mishra, Rajib Acharya, Niranjan Saggurti, Subrato Mondal & Debendra Kumar Nayak*

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National Family Health Survey-5 (II)

In the context of Sustainable Development Goals, six papers analyse demographic and maternal health-related indicators. **pages 38–80**

Satyashodhak Samaj

The sesquicentennial of the Satyashodhak Samaj has been depressingly uneventful and unacknowledged in Maharashtra. Given that many social movements in the state have been the direct derivative of the Samaj, this peculiar kind of oblivious tendency of one's own lineage will lead to cultural amnesia. Can we afford to be so unmindful of Jotirao Phule and his legacy? **page 10**

Inflation, Poverty and GDP Growth

The Ministry of Statistics and Programme Implementation, after an 11-year gap, released the Household Consumption Expenditure Survey 2022–23. The new source of data is the basic starting point for a new consumer price index, replacing the 2012 base. **page 19**

Sri Lanka's 2024 Elections

This is the first election after the 2022 debt crisis and the mass street protests that ousted President Gotabaya Rajapaksa. **page 31**

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An Opportunity Lost

10 The sesquicentennial of the Satyashodhak Samaj has been depressingly uneventful and unacknowledged in Maharashtra. Can we afford to be so unmindful of Jotirao Phule and his legacy? — *Dilip Chavan*

A Reserve Bank of India Study on Gram Panchayat Finances

12 That India's fiscal federalism suffers from a lack of critical analysis of local finance based on relevant and reliable data is widely acknowledged. — *MA Oommen*

Keeping the Indian Rupee Stable: Forward Market Interventions

15 The shifting modus of RBI intervention from spot to forward markets is examined, along with a cost-benefit analysis of such interventions. — *Smita Roy Trivedi*

Inflation, Poverty and GDP Growth Assessment

19 The Household Consumption Expenditure Survey 2022-23 will become the starting point for a new consumer price index, besides helping determine a poverty line for policy interventions. — *Rajarangamani Gopalan, Manek C Singhi*

Elite Circulation and Renegotiating the Social Contract

31 The presidential elections in Sri Lanka is largely fought on a platform of economic stability in the context of an ongoing IMF-led reforms programme. This is challenged by the two main opposition contenders in the face of growing inequality. — *Harindra B Dassanayake, Rajni Gamage*

National Family Health Survey-5

In the second part of the NFHS special issue, six papers analyse demographic and maternal health-related indicators.

Child and Late Adolescent Marriage in India

38 Even after adjusting for confounding factors, women marrying in childhood or late adolescence are more likely to face controlling behaviour and violence within marriage, and less likely to control resources, make decisions and enjoy freedom of movement. — *Shireen J Jejeebhoy, Tapasya Raj & Harihar Sahoo*

Transportation Barriers to Accessing Maternal Care Services

45 Transportation infrastructure, its absence, affordability, and quality create barriers in accessing maternal healthcare services. Attention to mobility and transport while designing maternal care policies will contribute to improving the lives of mothers and children. — *Arun Balachandran, Ajay Bailey*

Consumption of IFA Supplements among Pregnant Women

51 This paper presents national-level trends and patterns in the purchase and consumption of IFA supplements during pregnancy. Antenatal care by skilled providers and the sharing of health and nutrition information by front-line workers have a significant impact on IFA consumption. — *William Joe, Ajit Kumar Yadav, Sunil Rajpal, Kapil Yadav & Preetu Mishra*

Effect of Kanyashree Prakalpa Programme on Child Marriage and Fertility

58 The impact of the Kanyashree Prakalpa programme on curbing child marriages and adolescent pregnancies in West Bengal is analysed. The results highlight the scope of conditional cash transfer programmes in improving demographic outcomes in developing countries. — *Aparajita Dasgupta*

Internal Migration and Maternal Healthcare Services Utilisation

65 This study examines how migration status and gender norms affect maternal healthcare utilisation among married women. Health systems should ensure that those with compromised healthcare-seeking autonomy are brought within the pale of maternity care services. — *Tijo George, Mala Ramanathan*

Economic Growth and Women's Empowerment

73 The relationship between women's empowerment and economic growth is investigated. The findings reveal a positive influence of growth on economic empowerment but a more subdued, if not negative, effect on women's agency. — *Mayanka Ambade, Aparajita Chattopadhyay*

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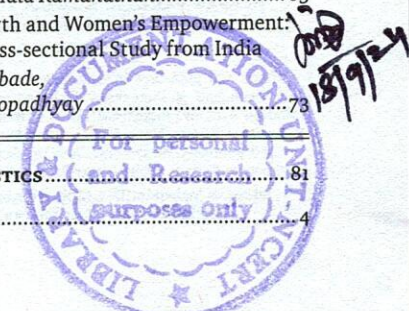
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Wayanad Landslides

The increasing frequency and intensity of landslides, driven by climate change, point out the critical need for effective adaptation and mitigation strategies. [page 14](#)

Poverty of Neo-liberal Economics

The modern central banking framework and strategies in developing countries are the flawed offspring of orthodox ideas. [page 10](#)

Poor Earnings of the Self-employed

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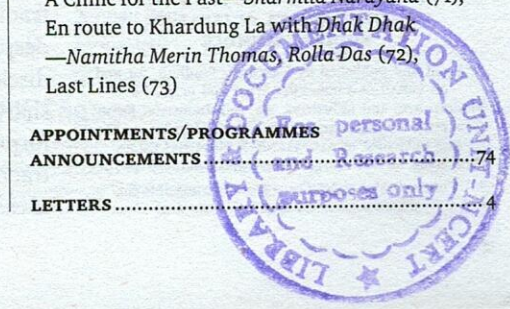
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The Poverty of Neo-liberal Economics

10 The modern central banking framework and strategies in developing countries are the flawed offspring of orthodox ideas. They fail to address the main constraints of developing countries. — Güney Düzçay, T Sabri Öncü

Landslides in Wayanad: A Case of Climate Change?

14 The Wayanad tragedy has reignited an intense discussion over the impact of climate change in the Western Ghats, pointing to the critical need for effective adaptation and mitigation strategies — C George Thomas

Sixteenth Finance Commission and Urban Local Governments

17 The Sixteenth Finance Commission needs to recognise the contributions of urban local governments in economic development, increase allocations to them, reduce conditional and tied grants, and strengthen monitoring systems. — Meera Mehta, Dinesh Mehta & Dhruv Bhavsar

Versatile Teacher and Eminent Macroeconometrician

21 Vishwanath Pandit was a pioneer of macroeconomic modelling in India. A long-time professor at the Delhi School of Economics, his passing marks a significant loss to the economics community. — K L Krishna

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27 The share of railways in domestic freight transport has been declining over time. Establishing the role of non-price factors in this decline, the study indicates that the freight-loading targets set by the railways for course correction are highly ambitious and require a complete overhaul of current marketing and revenue policies. — Rahul Chakraborty

GST Revenue Performance

35 This paper examines the performance of GST revenue over the past seven years. Overall revenues have now converged to pre-GST levels. As expected, GST has worked broadly to benefit the poorer states. Going forward, folding the cess into the regular rate structure can reduce the need for revenue guarantees for states. The revenue guarantee experience also holds several important lessons for the future. — Varun Agarwal, Devashish Deshpande, Josh Felman, Theerdha Sara Reji & Arvind Subramanian

House Prices in India: How High, and for How Long?

50 A significant proportion of India's population lacks access to decent housing. Why housing is expensive in India and what explains the tepid increase in house price growth over the last few years need to be understood to address the challenge. Focus should be on releasing developable land supply transparently through rigorous land use and implementation, in order to make housing affordable. — Shishir Gupta, Nandini Agnihotri & Annie George

Education—Income Interrelations in Haryana

60 While investigating the education and income trends of people engaged in different types of employment in Haryana, it is found that the average earnings of educated self-employed persons are even less than the wages of not literate casual workers. Despite this, there has been a significant increase in the share of self-employment work. Further, the pandemic has had a devastating effect on earnings, resulting in extreme distress in the labour market. — Narendra Kumar Bishnoi, Bharat Jakhar & Babloo Jakhar

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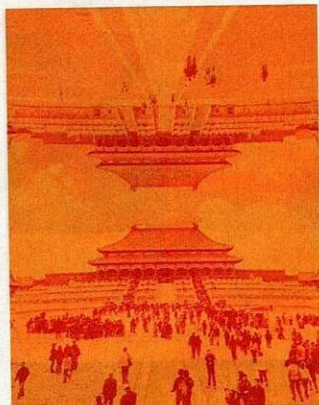
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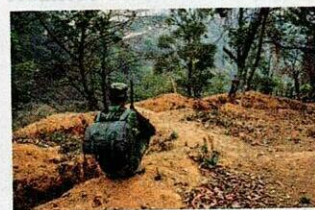


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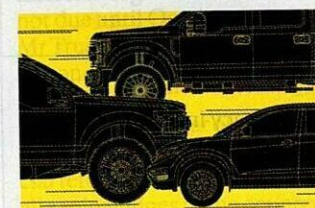
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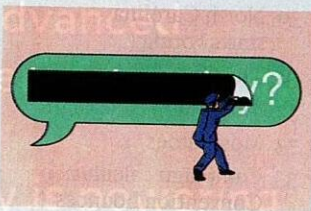
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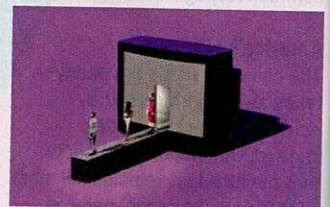
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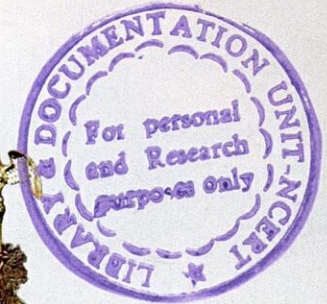
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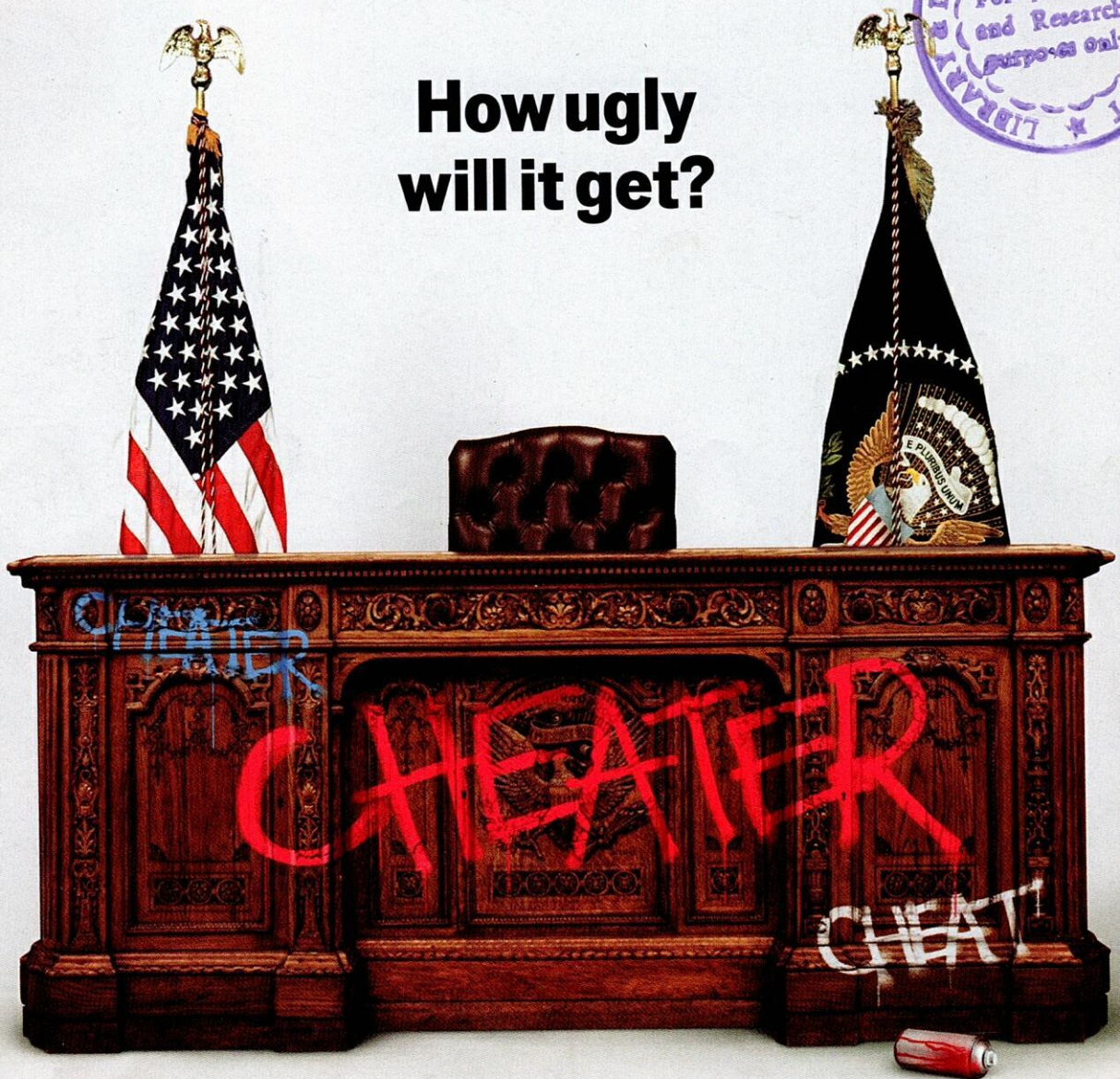
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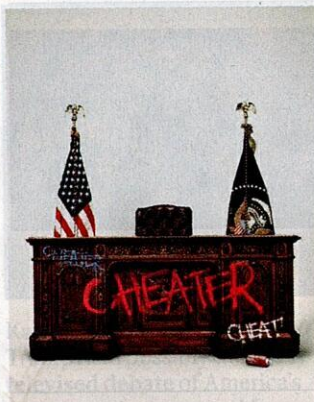


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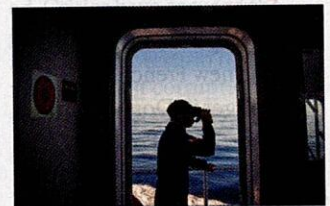


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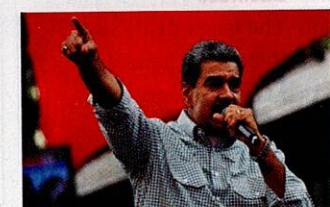
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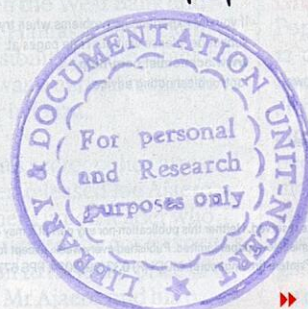


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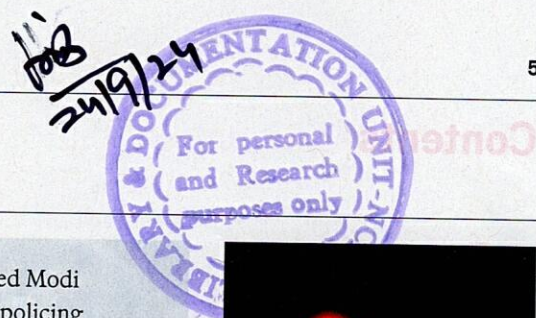
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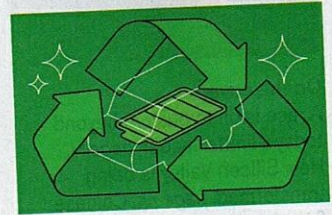
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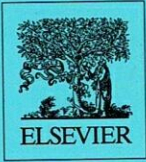
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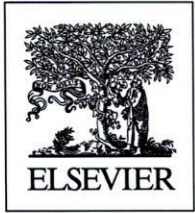
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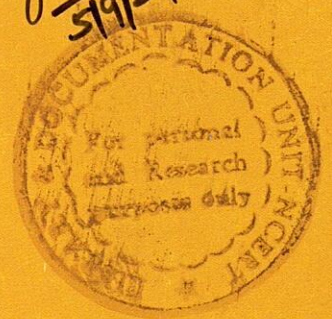
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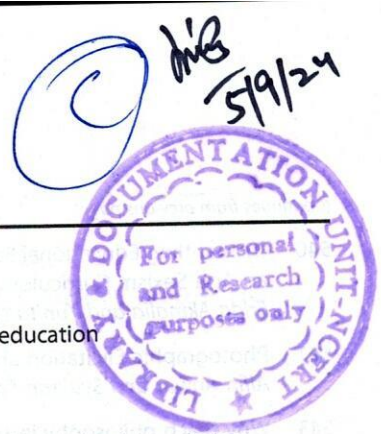


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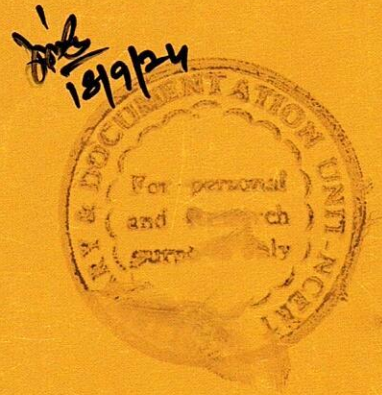
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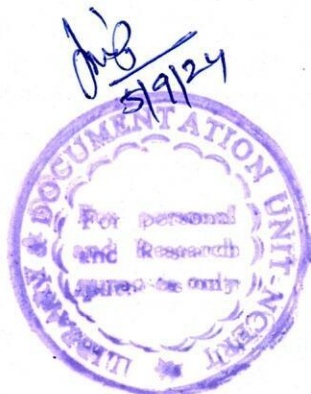
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**Can the International Baccalaureate (IB) make a better
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Guest Editors:

**Alexander Gardner-McTaggart, Tristan Bunnell, Julia Resnick,
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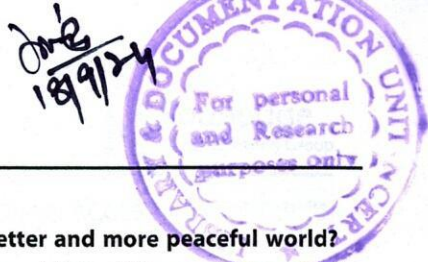
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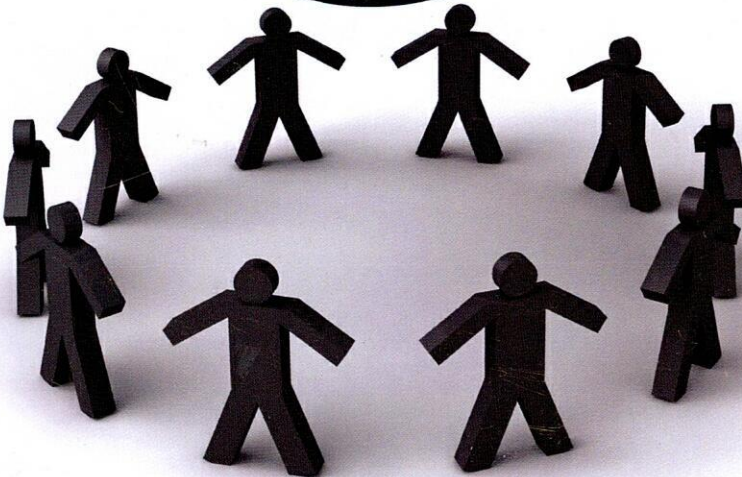
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Special Issue: Migration, Refugee Experiences, and
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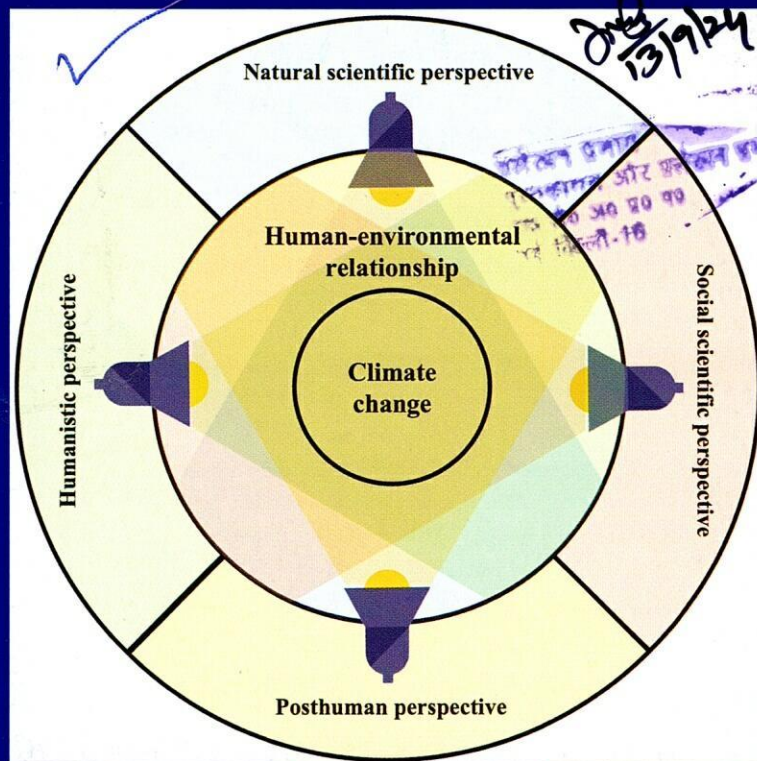
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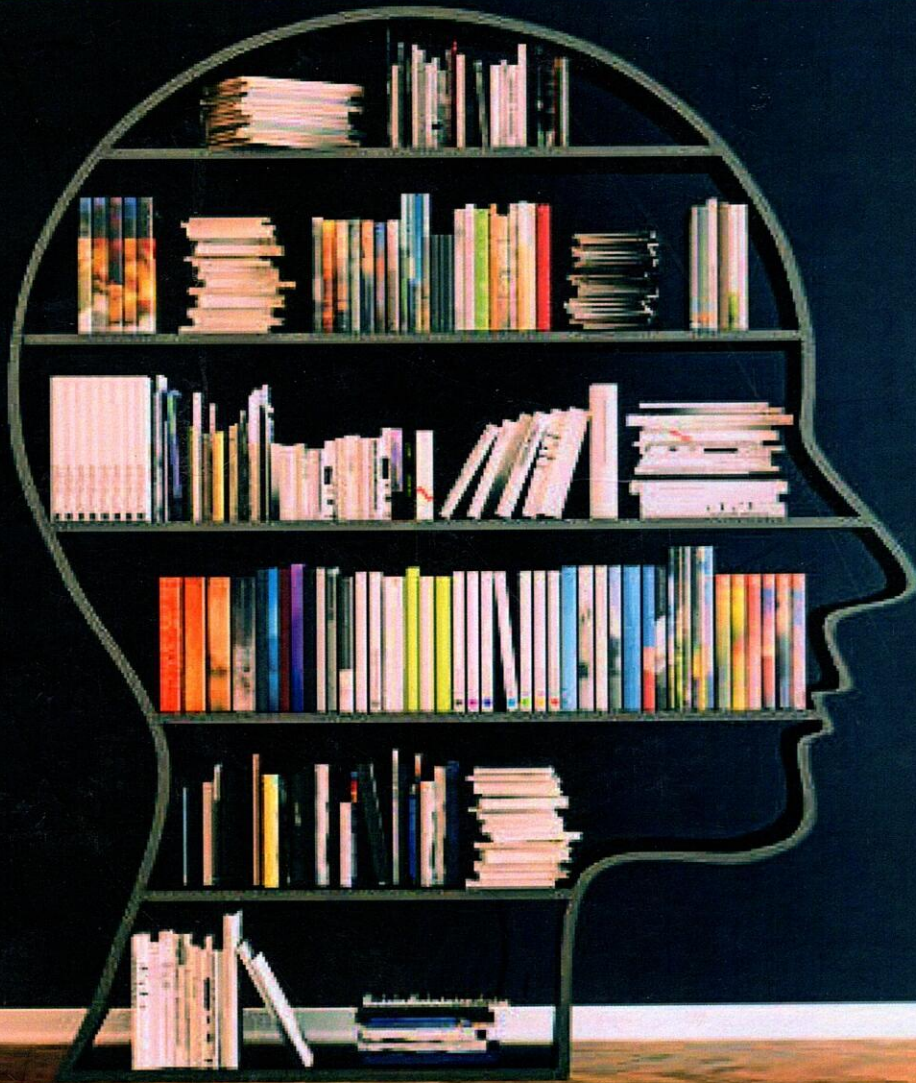
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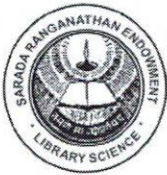
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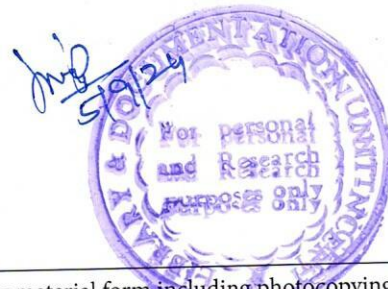


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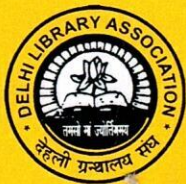
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A Peer Reviewed

JOURNAL OF THE DELHI LIBRARY ASSOCIATION

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March 2024

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- Shifting Paradigms of Pre-Covid and Post-Covid Literature on Media Literacy: A Bibliometric Study
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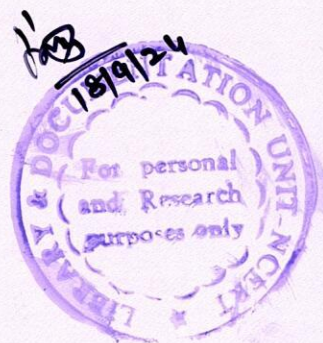
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language assessment quarterly

an international journal

Evelina Galaczi and Elvis Wagner
Editors



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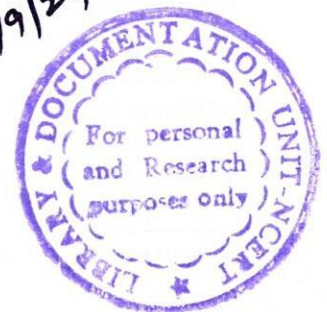
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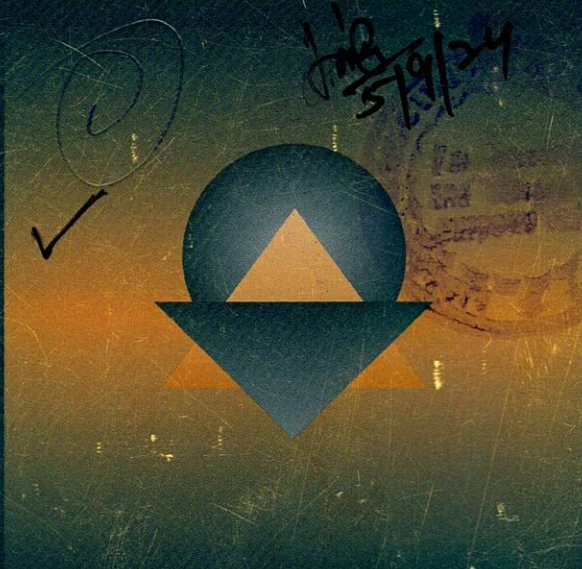
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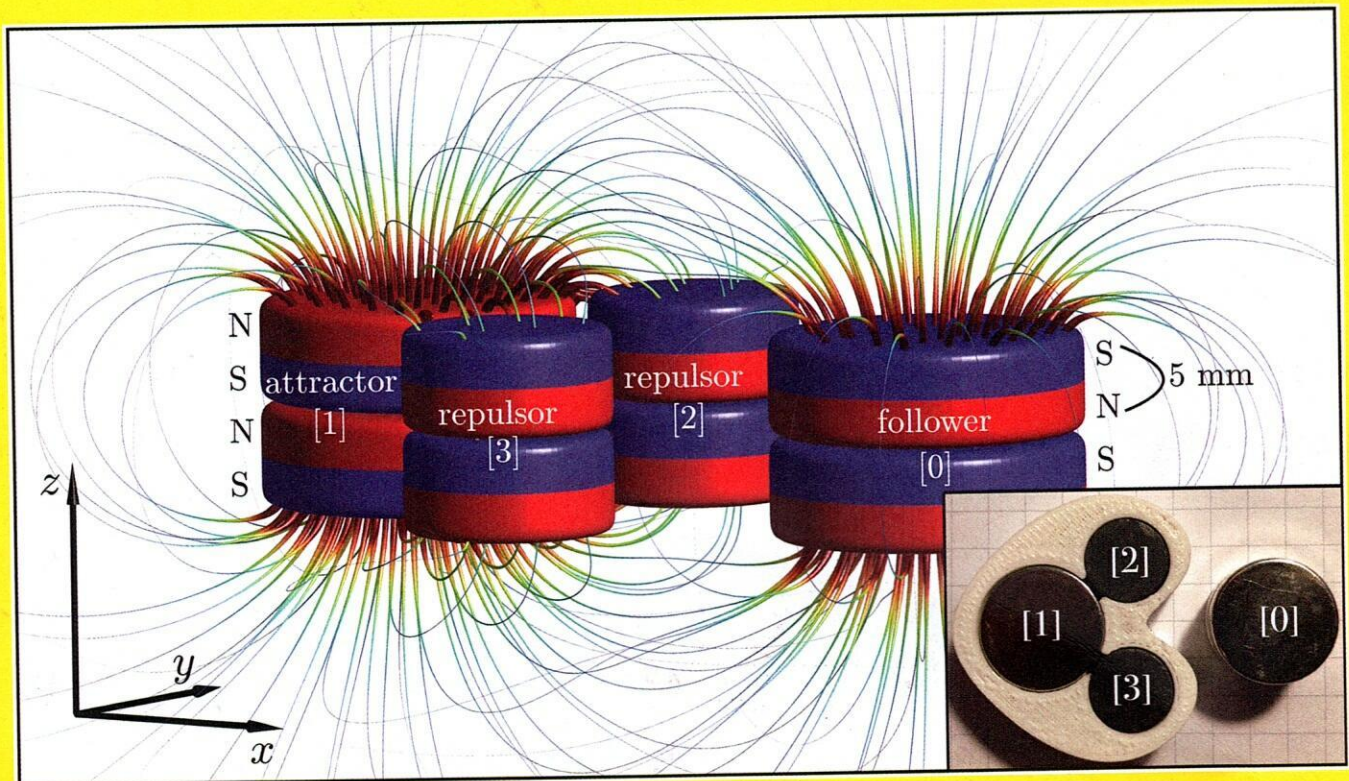
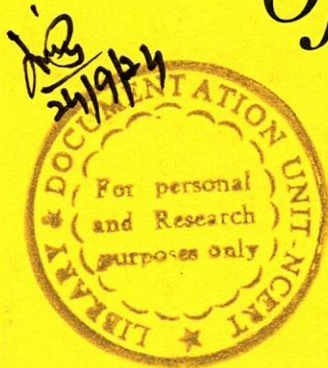
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AMERICAN JOURNAL of PHYSICS

Volume 92, No. 8, August 2024



A PUBLICATION OF THE AMERICAN ASSOCIATION OF PHYSICS TEACHERS

Available online—visit <http://aapt.org/ajp>

In this issue: August 2024

Claire A. Marrache-Kikuchi,^{a)} Raina Olsen,^{b)} Beth Parks,^{c)} Donald Salisbury,^{d)} and Keith Zengel,^{e)} *Editors*

(Received 23 June 2024; accepted 24 June 2024)

<https://doi.org/10.1119/5.0225206>

These brief summaries are designed to help readers easily see which articles will be most valuable to them. The online version contains links to the articles.

Letters to the editor

“Who discovered angular momentum of the photon?”

Ajoy Ghatak

92(8), p. 567. <https://doi.org/10.1119/5.0191372>

“Comment on ‘Dynamics of a bouncing capsule: An impulse model vs a Hertzian model’”

Rod Cross

92(8), p. 568. <https://doi.org/10.1119/5.0220437>

Please enjoy these letters and consider writing one yourself. I'd love to hear from you.

2024 AAPT award citations at the summer meeting in Boston, Massachusetts

92(8), p. 569. <https://doi.org/10.1119/5.0225393>

We are delighted to present award citations from the summer meeting. Additional citations will appear in *The Physics Teacher*.

Transition from bouncing to rolling on a horizontal surface

Rod Cross

92(8), p. 571. <https://doi.org/10.1119/5.0160345>

When a ball is dropped on a horizontal surface with no initial spin, previous studies have found that its bouncing behavior can be simply described using a coefficient of restitution, which gives the ratio of the velocity after the bounce to before the bounce. The value of this coefficient is -1 for a perfectly elastic ball/surface, with a smaller magnitude for any real ball. In many sports, like golf, basketball, or bowling, balls are thrown at an angle and are often given some initial spin by the player. Depending on initial conditions, these balls can bounce, roll, or start by bouncing and then transition to rolling. Here, the transition from bouncing to rolling is shown to be described by using both a vertical and horizontal coefficient of restitution, with the horizontal velocity defined at the spinning edge of the ball rather than its center. Videos of undergraduate level experiments are included, with results used to validate the model.

Understanding two-dimensional tractor magnets: theory and realizations

Michael P. Adams

92(8), p. 576. <https://doi.org/10.1119/5.0198262>

Have you heard about tractor magnets? Certain fixed arrangements of three cylindrical magnets on a tabletop surface result in a stable equilibrium for a fourth follower

magnet. In this article you will find the theoretical basis for this curious stability, a thorough experimental analysis of the stability of different possible magnet arrangements, and supplemental videos and 3-D printing plans so you and your students can create and study your own tractor magnets. The link to the paper will also take readers to a video abstract.

A taxonomy of magnetostatic field lines

Joel Franklin, David Griffiths, and Darrell Schroeter

92(8), p. 583. <https://doi.org/10.1119/5.0186335>

Many accepted truths about field lines are not actually correct. Magnetic field lines can actually start and stop, and there is generally no relation between the density of magnetic field lines and the strength of the magnetic field. These points are made in the more complicated electric current configurations that are presented here and they can easily be demonstrated in upper-level undergraduate electromagnetism courses. The linked Mathematica techniques will enable instructors to construct their own innovative models.

A simulation of diffraction patterns using a lock-in detection code

M. Kolmanovsky, T. Hill, W. J. Kim

92(8), p. 593. <https://doi.org/10.1119/5.0128143>

Did you know that you could simulate a single-slit diffraction experiment using a lock-in amplifier? If not, you can read through this paper, which shows how using a rectangular time window when playing with a lock-in is the time-equivalent of the rectangular aperture in the optics experiment: The properties of Fourier transform guarantee that you will obtain a sinc function either in frequency for the lock-in experiment or in wave vector for the light diffraction experiment. Appropriate for undergraduate optics or instrumentation classes.

Rutherford scattering of quantum and classical fields

Martin Pijnenburg, Giulia Cusin, Cyril Pitrou, and Jean-Philippe Uzan

92(8), p. 597. <https://doi.org/10.1119/5.0175025>

Rutherford scattering, named after the famous gold-foil experiment designer, is the scattering of one charged particle by another charged particle of fixed position. The authors here present a new approximation for this quantum scattering process, discuss the shortcomings of the traditional Born approximation approach found in many quantum mechanics textbooks, and show how their new techniques may be applied to the problem of the scattering of classical waves by black holes.

Four interacting spins: Addition of angular momenta, spin-spin correlation functions, and entanglement

Raimundo R. dos Santos, Lucas Alves Oliveira, and Natanael C. Costa

92(8), p. 606. <https://doi.org/10.1119/5.0150433>

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August 2024 • volume 77, number 8

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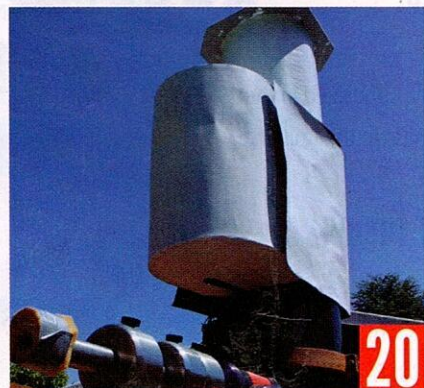
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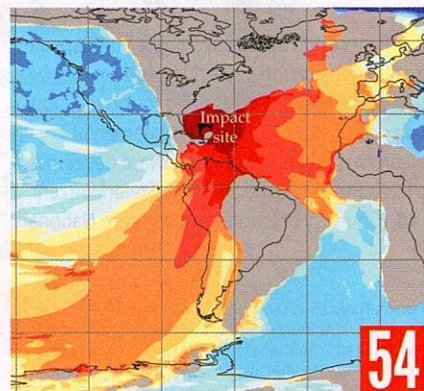
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Five-molecule water clusters have liquid-like properties • How to make a midsize black hole • Updates: Levitating beads reveal radioactivity / Long-necked single-celled predator has mastered an unusual origami fold / Rapidly strained metals strengthen when heated / Slow solar wind traced to Sun's active regions



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Fermilab goes deep to silence noisy radiation affecting qubits • Survey asks majors: Why physics? • Optical telescopes get rigged for daytime astronomy • Q&A: Burçin Mutlu-Pakdil chases dwarf galaxies



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Editor-in-chief

Richard J. Fitzgerald rjf@aip.org

Managing editors

Andrew Grant agrant@aip.org

Johanna L. Miller jlml@aip.org

Art and production

Freddie A. Pagani, art director

Nathan Cromer

Jason Keisling

Editors

Ryan Dahn rdahn@aip.org

Laura Fattaruso lfattaruso@aip.org

Toni Feder tf@aip.org

Abby Hunt ahunt@aip.org

Alex Lopatka alopatka@aip.org

Gayle G. Parraway gpg@aip.org

Jennifer Sieben jsieben@aip.org

Assistant editor

Nashiah Ahmad nahmad@aip.org

Digital operations

Greg Stasiewicz gls@aip.org

Editorial assistant

Tonya Gary

Contributing editors

Sonja Boettcher

Andreas Mandelis

Hannah H. Means

Sales and marketing

Christina Unger Ramos, director cunger@aip.org

Kelly Winberg

Address


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
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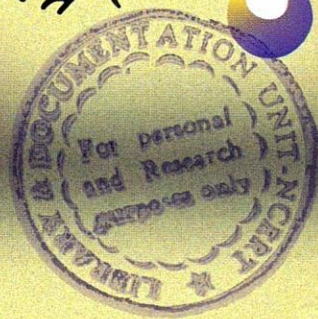
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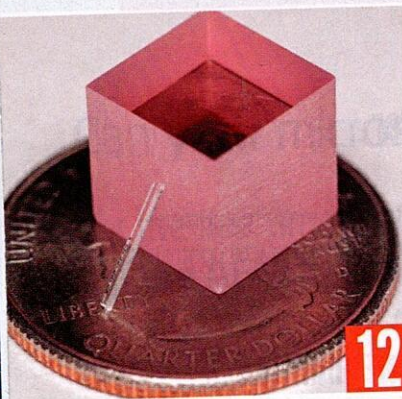
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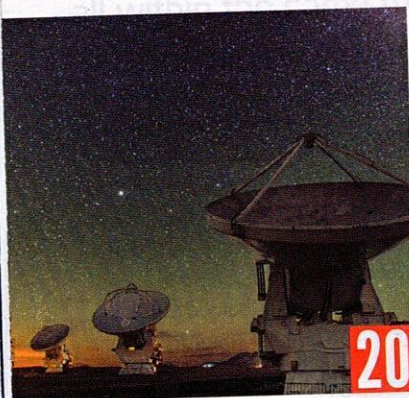
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Richard J. Fitzgerald rjf@aip.org

Managing editors

Andrew Grant agrant@aip.org

Johanna L. Miller jlml@aip.org

Art and production

Freddie A. Pagani, art director

Nathan Cromer

Jason Keisling

Editors

Ryan Dahn rdahn@aip.org

Laura Fattaruso lfattaruso@aip.org

Toni Feder tf@aip.org

Abby Hunt ahunt@aip.org

Alex Lopatka alopatka@aip.org

Gayle G. Parraway ggp@aip.org

Jennifer Sieben jsieben@aip.org

Assistant editor

Nashiah Ahmad nahmad@aip.org

Digital operations

Greg Stasiewicz gls@aip.org

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Address


American Institute of Physics


One Physics Ellipse


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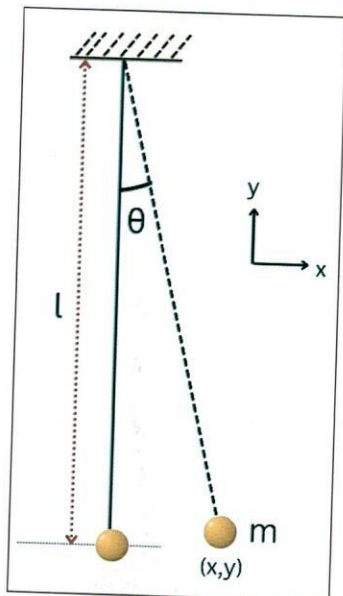
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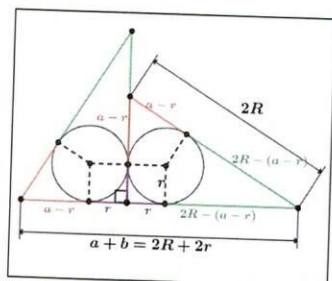
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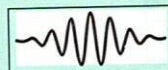


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A fossil Plesiosaur that Mary Anning collected –
on display at the London Natural History Museum

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Mary Anning
(1799–1847)

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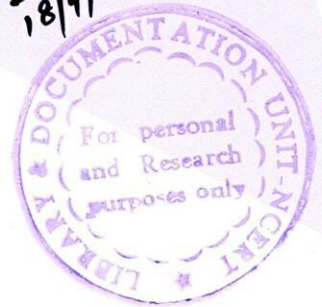
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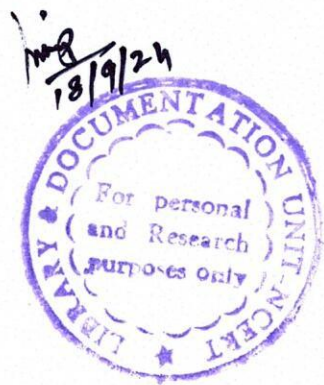
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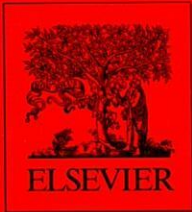
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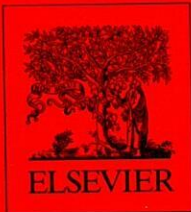
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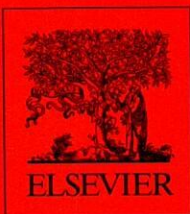
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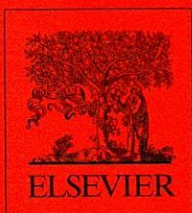
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