

ISSN 2321-3558

Volume 11 • Number 4 • June 2023

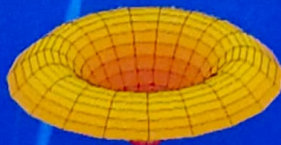
JOURNAL OF VIBRATION ENGINEERING & TECHNOLOGIES

An Official Journal of the Vibration Institute of India

Annual Subscription (within India) for 2023 - INR 9000/-

For circulation in India only

Co-sponsored by
IFTOMM



Krishna

Springer

10.10.23

Journal of Vibration Engineering & Technologies

Volume 11 · Number 4 · June 2023

ORIGINAL PAPERS

Transient, Steady-State and Total Dynamic Responses of Mindlin Viscoelastic Plates Subjected to Harmonic Transversal Load and In-Plane Compression

N. Jafari 1393

New Approach to Study the Dynamic Performance of Worm Gear Drive Model

C. Hammami · A.E. Chakroun · A. Hammami · F. Chaari · A. De-Juan · A. Fernandez · F. Viadero · M. Haddar 1407

Fault Diagnosis of Rotating Machinery Based on Local Centroid Mean Local Fisher Discriminant Analysis

Z. Sun · Y. Wang · G. Sun 1417

Study on the Semi-numerical and Semi-analytical Solutions of the Dynamics Equation of an Aero-engine Rotor System with ERSFD

P. Guoying · C. Shuqian · C. Yushu · H. Yuanhang 1443

An Origami-Inspired Quasi-zero Stiffness Structure for Low-Frequency Vibration Isolation

P. Zeng · Y. Yang · L. Huang · L. Yin · B. Liu 1463

Study on Coupling Mechanism Between Highly Nonlinear Solitary Waves and Interior Delamination Composite Plate

Z. Shao · Y. Wang 1477

Weak Fault Feature Extraction Based on Weighted Contribution Rate of Nonlinear Output Frequency Response Functions and Stochastic Resonance for Rub-Impact Fault Diagnosis

J. Li · Y. Liu · F. Xi · Y. Zhao · H. Liang 1495

A Calculation Method for Determining the Number of Truncated Modes Based on Hysteretic Damping Model

P. Sun · H. Yang · S. Wang · D. Wang 1507

A New Structural Damage Detection Method for Cantilever Beam Using Generalized Flexibility Quotient Difference Method

S. Hanumanthappa 1525

Free Vibration of Non-uniform Timoshenko–Ehrenfest Beams with Arbitrary Two-Directional Functionally Graded Materials

Y. Huang 1535

Vibration Attenuation Study of Curved Panel Treated with Partially Constrained Composite Unaged and Aged NBR (Acrylonitrile–Butadiene Rubber) Elastomers

A.K. Jha · N. Kumar · K. Suresh 1553

A Hybrid Vibration Energy Harvester: Experimental Investigation, Numerical Modeling, and Statistical Analysis

R. Maroofiazar · M. Fahimi Farzam 1575

A Variable Stiffness and Damping Control Strategy for Improving Vibration Isolation Performances in Low-Frequency Excitation

X. Xing · Z. Chen · Z. Feng 1595

Vibration Fault Analysis of Hydropower Units Based on Extreme Learning Machine Optimized by Improved Sparrow Search Algorithm

F. Kong · C. Song · Y. Zhuo 1609

Experiment and Simulation Research on Synchronization Control of Shaking Tables System Based on Adaptive Sliding Mode Controller

L. Zhang · J. Feng · W. Qiu · L. Zhang 1623

Identification of the Nonlinear Aerodynamic Load of Vortex-Induced Vibration for a Centrally Slotted Box Deck Model Based on a Wind Tunnel Test

D. Xia · L. Dai · L. Lin 1647

Seismic Vulnerability Assessment of an Unanchored Circular Storage Tank Against Elephant's Foot Buckling

N. Bektaş · E. Aktaş 1661

Bi-stability and Vibration of Asymmetric and Antisymmetric Laminates with Four Points Simply Supported at Arbitrary Location

J. Cao · Y.X. Hao · W. Zhang · L.T. Liu · S.W. Yang · Y.T. Cao 1679

Analytical Scheme of Stability Analysis for 4-DoF Mechanical System Subjected to Friction-Induced Vibrations

V. Puzyrov · G.P. Vazquez · L.A. Zuppa 1697

Rs. 30.00
ISSN-0566-2257



UNIVERSITY NEWS

A Weekly Journal of Higher Education

Association of Indian Universities

Vol. 61 • No. 34 • August 21-27, 2023



Manoj Kumar Srivastava and Swapan Kumar Kolay

Tribal Situation in Bastar Region: Problems, Prospects and Development

Alka Singh and Aerum Khan

Flexible Strategies for Ensuring Quality Learning Outcomes during
COVID-19 in Different Countries

Lata and Reena Agarwal

An Analysis of Evaluation System of M.A. in Economics at Central University
of Allahabad

Ravindra B Tasildar

The Death of Compulsory English

Droupadi Murmu

Determination Supersedes Comfort

Let's Create Atmanirbhar Bharate Together

L 10.10.23



UNIVERSITY NEWS

A Weekly Journal of Higher Education

Association of Indian Universities

Vol. 61 • No. 35 • August 28-September 03, 2023



Haribhau R Bhapkar

New Methods for Assessment and Accreditation: Pragmatic Approach Derived through the Recommendations of National Education Policy–2020

C Maphosa and Chandraiah Esampally

Employability through Degree Programmes in Psychosocial and Economic Support: A Case of Institute of Distance Education, University of Eswatini

Mahima Rana, Garima Pathania and Kulwant Singh Pathania

Strengthening Commerce and Management Studies in India: The Way Forward from the Recommendations of National Education Policy—2020

Gedam Kamalakar and Kandi Kamala

Guidelines for Institutional Development Plan to Meet the Aims of New Education Policy–2020

Jagdish Mukhi

Necessity to Synergize Ancient Wisdom and Knowledge for Today's Need
– Convocation Address



A CSIR Publication



J Sci Ind Res (Monthly)
AUGUST 2023
CODEN: JSIRAC (82) (8)901-910(2023)
ISSN : 0022-4456
e-ISSN : 1975-3194
jsir@niscpr.res.in

Single Copy: ₹ 576.00 \$ 78.00
Annual Sub: ₹ 5760.00 \$ 780.00

Journal of **Scientific & Industrial Research**



<https://niscpr.res.in>

CSIR-National Institute of Science Communication And
Policy Research
New Delhi, INDIA

✓ 10.10.23

Journal of Scientific & Industrial Research

<http://www.niscpr.res.in>; <http://nopr.niscpr.res.in>

VOLUME 82

NUMBER 08

August 2023

CODEN: JSIRAC (82)(08) 801-910 (2023)

ISSN: ISSN: 0022-4456 (Print); 0975-1084 (Online)

CONTENTS

<i>Papers</i>	
Therapeutics of Bioactive Compounds from Medicinal Plants and Honeybee Products against Cancer Anita Rana & Harjit Kaur Bajwa	805-817
Rank Based Two Stage Semi-Supervised Deep Learning Model for X-Ray Images Classification Pawan Kumar Mall, Vipul Narayan, Swapnita Srivastava, Munish Sabarwal, Vimal Kumar, Shashank Awasthi & Lalit Tyagi	818-830
Comparison of NDT data fusion for concrete strength using decision tree and artificial neural network Saha Dauji	831-840
Autism Gene Subset Selection from Microarray data – A Wrapper Approach Anurekha G & Geetha P	841-850
Estimating social background profiling of Indian speakers by acoustic speech features Mohammad Ali Humayun, Hayati Yassin & Pg Emeroylariffion Abas	851-860
Influence of illumination on color based potato defect detection Amrinder Singh Brar & Kawaljeet Singh	861-869
Performance Investigation of NRZ-DQPSK, CSRZ-DQPSK and MDRZ-DQPSK Modulation Techniques for 450 Channel UD-WDM System for Long Haul Communication Rajeev & Chakresh Kumar	870-884
Energetic Assessment of Different Paddy Straw Densification Processes Hemant Kumar, Parveen Dhanger, Vijaya Rani & Mukesh Jain	885-891
A study on the physical, biochemical, thermal and textural properties of key lime fruit Birhang Basumatary, Puja Das, Prakash Kumar Nayak, Deepanka Saikia & Radha krishnan Kesavan	892-898
Effect of hydro and cold room pre-cooling on cooling kinetics and post-harvest quality of amla Mahipal Singh Tomar & Rama Chandra Pradhan	899-905

DELHI POLICE LICENSING UNIT NO: F.2 (S.6) PRESS/2016



SEA AND COAST

MONTHLY MARITIME MAGAZINE

VOICE OF MARINE COMMUNITY

August - 2023 | Volume-07 | Issue-08 | RNI NO : DELENG/2017/70663 | ₹315

Distributed in India, Singapore, Canada, Sri Lanka, Iran, Italy, Greece, Venezuela, Israel, UAE, South Africa, Usa, Spain, Australia, Kazakhstan, Vietnam, Tunisia, Turkey, Bulgaria, Belgium, Brazil, Malaysia, New Zealand, Nigeria, Poland, And Russia

15
AUGUST
INDEPENDENCE DAY



QUALITY MANAGEMENT SYSTEM CERTIFIED ISO 9001 : 2015
ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFIED ISO 14001 : 2015



MARITIME

CONTENT

AUGUST
2023

VOL
07
ISSUE
08



Amit Kumar
Sea And Coast
Founder, CEO, Editor-in-Chief
Editorial 04

EXCLUSIVE COLUMN 10

ADVISORY BOARD 05



Name :- Luislen Oliveros
Rank :- Deck Cadet

VENEZUELA

She @ Sea

06



Capt. Kamal Kant Sharma
HoD at FOSMA NOIDA
EXCLUSIVE COLUMN 07



15
AUGUST
HAPPY
INDEPENDENCE
DAY



Dr Anil Mehndiratta
(MBBS , MD, AFIH, FCCP)
Senior Pulmonologist,
DG Shipping India& OEUK/OGUK
Approved Medical Examiner,
Past IMA Goa President
Vasco da gama, Goa
EXCLUSIVE COLUMN 12



Admiral RK Dhowan,
PVSM, AVSM, YSM (Retd)
Chairperson Society for Aerospace
Maritime and Defence Studies
(SAMDeS) (India). Former Chief of the
Naval Staff Indian Navy and Chairman
National Maritime Foundation
EXCLUSIVE COLUMN 08

NEWS

EXCLUSIVE NEWS 13

SHIPPING NEWS 15

PORTS NEWS 24

CRUISE INDUSTRY NEWS 27

OFFSHORE NEWS 32

SHIPBUILDING NEWS 36

INTERNATIONAL NEWS 40

NAVAL SECURITY NEWS 47

Duplicate

Cooling India

India's foremost Monthly dedicated to the growth of HVACR Industry

**A FEW LATEST
INNOVATIONS
IN COOLING**



Contents

Vol. 19 No. 1 | August 2023

14

Global Cooling Towers Market Is Experiencing Significant Growth

20

Creating The Right Environmental Condition

24

Time History Of Peas For Cold Preservation

28

Advanced Storage Dehumidifiers In HVAC

32

Strengthening The Cold Chain Greenways

A Few Latest Innovations In Cooling

16

INSIDE

19

DeepCool Rolls Out LE520, LE720 Liquid Coolers

23

A New Device To Keep The CPU Cool

35

Using Compressor for Underground Mine Application

36

The Self-repairing High-Speed Door For Food Industry

SECTIONS

4

Publisher's Letter

8

News

37

Advertisement Index

38

Event

Tolani

July 2023

Issue No. 142

Volume No. 37, No.1

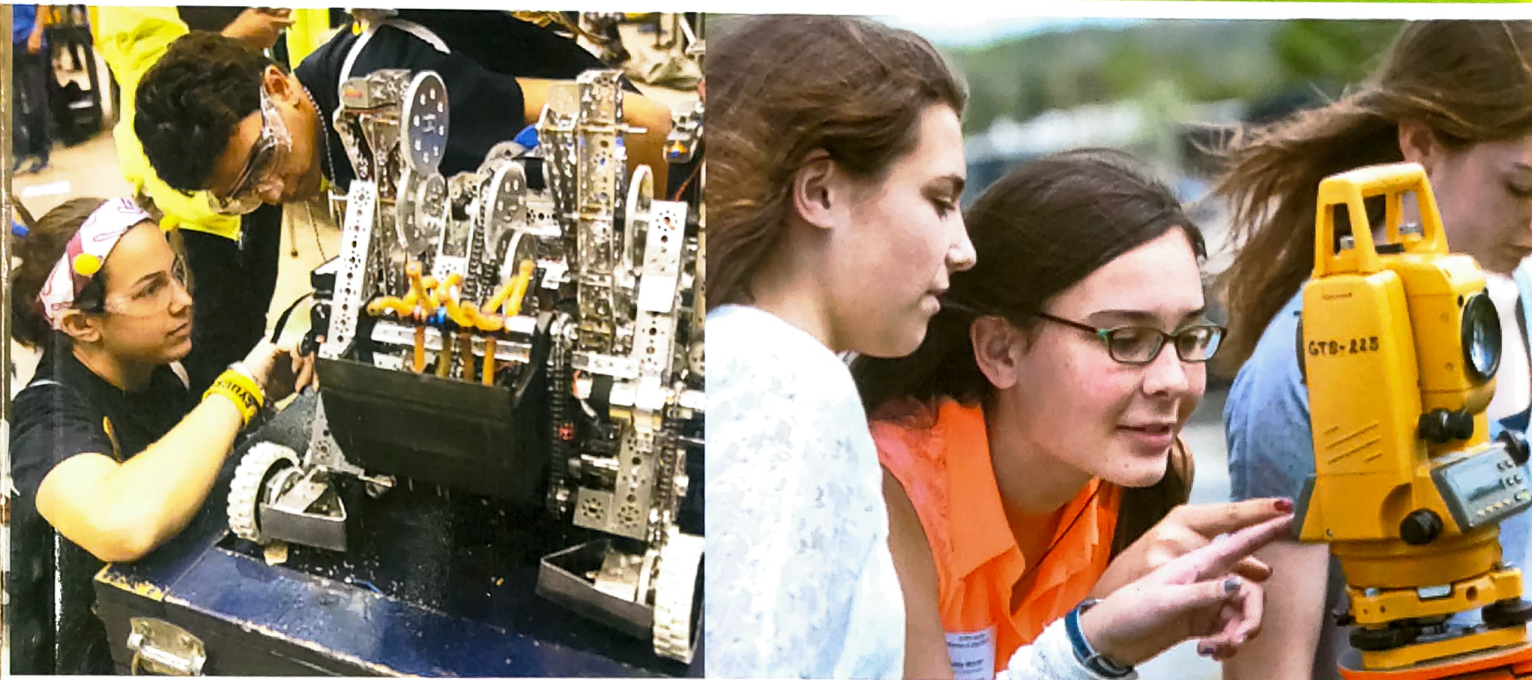
ISSN 2349-2473

eISSN 2394-1707



JEEET

Journal of Engineering
Education Transformations



rit + iucce

Rajarambapu Institute of Technology & Indo US Collaboration for Engineering Education

Formerly published by Engineering Education Foundation, Pune

Founder Editor : Prof. N. V. Ratnalikar

10.10.23

INDEX

Editorial

Dr. (Mrs.) Sushma S. Kulkarni

1. **Curriculum Compliance Improvement Model for Addressing Program Outcomes in Engineering Education** 07-19
R Sumathi, Savithramma R M, Ashwini B P
2. **Enhancing Product Development Skills of Engineering Students through Diversified Group Activities** 20-30
Rajendra Pawar, Satyajit Patil, Sushma Kulkarni
3. **Summer Multicultural and Interdisciplinary Learning for Engineering (SMILE) in Transportation: Online Professional Development for Future Science Teachers of Culturally and Linguistically Diverse Students** 31-40
Jiyoon Yoon¹, Kate Hyun², Farah Naz³, Troyee Saha
4. **Using Concept Inventory for Assessing Conceptual Knowledge in the Signals and Systems Course** 41-50
Rashpinder Kaur., Archana Mantri, Prathiba Nagabhushan, Gurjinder Singh
5. **Characteristics Of Education 4.0 and its Application in Industry 4.0.** 51-61
Carlos Alberto Schettini Pinto, Augusto da Cunha Reis
6. **Task Based Approach: An Approach to Develop Writing Skills in English of Engineering Students Leads to Effective Communication Skills** 62-69
Dipali M. Kadam, Swati N. Pusawale
7. **Using Kolb's Experiential Learning Theory to Improve Student Learning in Theory Course** 70-81
M. K. Kavitha Devi, M. Sathya Thendral
8. **Influence of Practicum Venture Process on Engineering Students: Experience and Learning Outcomes of Entrepreneurship Course** 82-88
G.Satheesh Raju, N.Suman Kumar, L.Sampath
9. **Elegant Computational Frameworks For the Analysis of Cantilevers and Beams** 89-97
Ashish Karn, Ayush Vyas, Anubha Upadhyay, Ayush Dwivedi



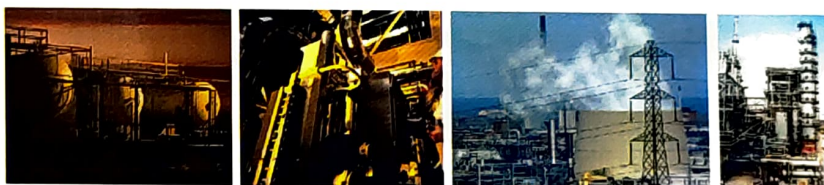
A CSIR Publication



J Sci Ind Res (Monthly)
SEPTEMBER 2023
CODEN: JSIRAC (82) (9) 911-1004 (2023)
ISSN : 0022-4456
e-ISSN: 0975-1084
jsir@niscpr.res.in

Single Copy: ₹ 576.00 \$ 78.00
Annual Subs: ₹ 5760.00 \$ 780.00

Journal of Scientific & Industrial Research



<https://niscpr.res.in>

CSIR-National Institute of Science Communication
Policy Research
New Delhi, INDIA

✓ 10-10-23

Journal of Scientific & Industrial Research

<http://www.niscpr.res.in>; <http://nopr.niscpr.res.in>

VOLUME 82

NUMBER 09

September 2023

CODEN: JSIRAC (82)(09) 911-1004 (2023)

ISSN: 0022-4456 (Print); 0975-1084 (Online)

CONTENTS

Papers

- | | |
|--|---------|
| Enhancing Ergonomics in Automotive Cylinder Head Manual Lapping: Workstation Assessment and Design
Mangesh Joshi & Vishwas Deshpande | 915-924 |
| Influence of Textile Layer Positioning on Flexural Strength- An Insight towards Field Casting of Textile Reinforced Concrete
Shankar & Gopinath | 925-931 |
| Go-Kashth: A Pioneering Approach for Alternate Fuel in Crematoriums
Yogendra Kumar Saxena, Ranu Chouksey Verma & P Jagan | 932-937 |
| Ergonomic Evaluation of Different Working Posture and Handle Designs of Mason Trowel during Wall Plastering Work based on Shoulder and Arm Muscle Activity
R. Naveen Kumar, S. Venkatachalam, S. Shankar, R. Nithyaprakash, A. J. Elavarasan, E. Krishnashankar, K. Dharmadurai, T V Srinivasan, C. Prakash | 938-946 |
| A Holistic Team Approach (HTA) Model to Curb Machinery Accidents in Power Plants
Kartikayan Patma Nesan, Azizul Buang, Sivabalan Kaniapan, Dzulkarnain Zaini, Vaashinni Patma Nesan & Michael John Maria Razal | 947-955 |
| Understanding Successful Transfers of Rapid-Composting Technology Using Qualitative Content Analysis for Interpretation
Thyagaraju H Ponangi, Poulomi Mukherjee, Karuna Jain & R B Grover | 956-965 |
| Gender Diversity and Women Empowerment Effects on Firms' Financial Sustainability: Evidence from Developing Countries
Wafa Ghardallou & Noha Alessa | 966-972 |
| Profitability Study of Indian Pharmaceutical Industry: A Co Integration Approach
Nirbhay Mahor & Amit Banerji | 973-982 |
| Design and Implementation of Cognitive Assessment Tool for Working Memory and Attention based on PGI Memory Scale
Shilpa Walia, Neelesh Kumar, P K Khosla & Sandeep Grover | 983-988 |
| Optimisation of Clove Basil and Sweet Basil Seeds Mucilages Extraction for Utilisation as Functional Ingredients
B Neeharika & K G Vijayalaxmi | 989-999 |

CONTAINER SHIPPING & TRADE

published by
riviera

3rd Quarter 2023

www.containerst.com



Ocean Network Express targets 'sustainable competitive profitability'



✓ 10.10.23

SHIP OPERATIONS

Dual-fuel ULCS orderbook
drives methanol demand

ALTERNATIVE FUELS

LNG: bridging the gap to
net zero for box ships

PORT SHIP-TO-SHORE

5G, automation and renewables –
transforming Tianjin port

SHORE-POWER FOCUS

Moving forward with
shore-power charging



REGULARS

- 5 COMMENT
- 6 NEWBUILDINGS & ORDERBOOK
- 36 LAST WORD

INDUSTRY INTERVIEW

8 Ocean Network Express' CEO Jeremy Nixon explains the carrier's strategy and future plans in a media conference

REGIONAL FOCUS: EUROPE

10 The CEO of DP World's Yarimca terminal in Turkey explains why the country is a hotspot for trade

PORT ANALYSIS: NORTH AMERICA

12 Port of Long Beach, Everglades and Georgia Ports Authority line up to discuss opportunities and challenges

PORT SHIP-TO-SHORE PROCESSES

16 The Chinese port of Tianjin reveals the future of logistics: 5G, automation and renewable energy

SHORE-POWER FOCUS

18 Increasing numbers of ports are providing shore power, but there are still challenges to overcome

TOP 20 CONTAINER PORTS

20 The winners and losers in the global top 20 ports (source: Alphaliner)

REEFERS

24 Energy efficiency and being environmentally friendly are top priorities for reefer manufacturers

SHIP OPERATIONS

26 Dual fuel methanol ultra large container vessels will drive the demand for this fuel

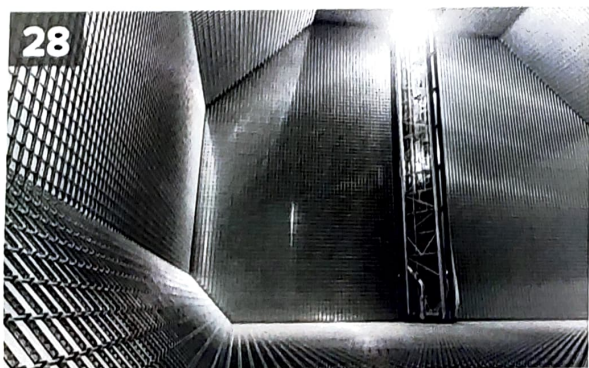
28 LNG is a solid option now, and bio LNG for the future

30 New projects could pave the way for liquid organic hydrogen carriers to be used by container ships

CYBER SECURITY

31 As cyber-security threats intensify, Port-IT chief executive Yuri Hart explains how to mitigate risks

32 The cyber-security implications of IMO 2023



TANKER

SHIPPING & TRADE

August/September 2023

published by
riviera)))

www.tankershipping.com

Shuttle tankers: meeting the challenge of CII



✓ 10:10-23

MARKET ANALYSIS

Tackling the problem of Russia's 'dark fleet'

MOORING TECHNOLOGY

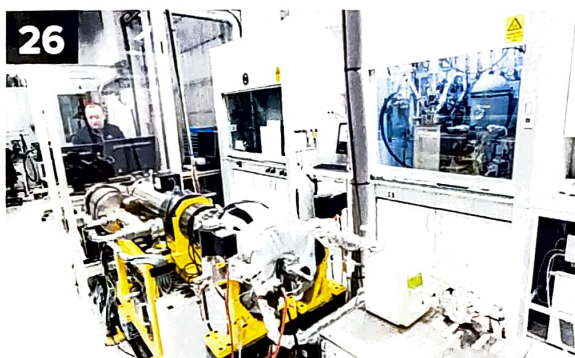
Are you ready for next year's Line Management Plan?

DECARBONISATION

Tracking the real-world progress of shipping's decarbonisation efforts

FUELS AND LUBES

Contamination casts a shadow over Houston bunkers



REGULARS

- 5 COMMENT
- 6 CONTRACTS AND COMPLETIONS
- 36 LEGAL BRIEFING
- 38 GREEN TANKER TECHNOLOGY
- 40 LAST WORD

SECTOR TOP 10

- 8 Why Russian interests dominate the Aframax tanker

MARKET ANALYSIS

- 10 IMO's latest emissions regs and the problem of Russia's 'dark fleet'

NEWBUILDING DESCRIPTION

- 12 *Stolt Ludwigshafen*: a low-water-capable inland waterway tanker
- 13 Eco-friendly product tankers help Algoma cut emissions

FUELS AND LUBES

- 14 Dealing with the ongoing issue of contaminated fuel

DECARBONISATION

- 16 The intriguing results of a new survey, addressing the progress of decarbonisation across the shipping community

GREEN SHIPPING CORRIDORS

- 18 Experts give their opinions on the value and 'green' shipping corridors along Asian routes

PORT CALLS

- 20 Shortening the time spent in port using the latest optimisation strategies

RETROFITS

- 22 The nagging issue of which energy source to commit to when specifying a retrofit programme
- 23 The options available when retrofitting a propulsion and auxiliary energy source

PILOT PROJECTS

- 24 A deep-dive into the many pilot projects currently running or planned for the tanker sector

"Books Have Been An Integral Part Of My Life"

- Prof. S. Sadagopan, An Educator & Thought Leader

"Startups, With Their Entrepreneurial Mindset And Nimbleness, Often Hold The Key To Innovation"

-Rahul Mathur, TE Connectivity

₹ 100
NOT FOR RE-SALE

The New

SEPTEMBER 2023

electronics

FOR YOU

MG Comet To BYD e6

4W EVs On Indian Roads Below ₹35 Lakhs



MUST READ

Are Electronics 'Made In India', Or Merely 'Assembled'?

Bridging The Cosmos: Protecting The Satellite Constellations In The Era Of Cyber Threats

Creating Self-Evident Design

Interesting Reference Designs Of Smart Electric Meters

Electronics Startups of the Month



An **EFYGROUP** Publication

Vol. 55 No. 9 • ISSN 0013-516X

SUBSCRIBER COPY

Sale and purchase of this copy is illegal
Pages: 126

PERSONAL PROTECTION & SAFETY PRODUCTS

Our wide range of products includes protective masks, ESD gloves, disposable gloves, surface cleaners, ESD shoes, and more from leading manufacturers.



Contact us today! in.element14.com | 1800 108 3888 (toll free)

element14

AN AVNET COMPANY



CONTENTS

TECHNOLOGY

- 26 **TRENDS:** Edge Computing: Benefits For Businesses And Users
- 30 **IT INFRA:** Data Management In The Cloud: What The Tech Giants Are Offering
- 44 **CHALLENGES:** Bridging The Cosmos: Protecting The Satellite Constellations In The Era Of Cyber Threats

MG Comet To BYD e6
 4W EVs On Indian Roads
 Below ₹35 Lakhs

38



STRATEGY

- 66 **INDUSTRY:** Are Electronics 'Made In India,' Or Merely 'Assembled'?
- 72 **STARTUPS:** Can A Business Plan Be An Asset?
- 74 **INTERVIEW:** "With Quality, Cost, And Innovation, India Can Lead The Global Detonators Industry" — Pankaj Kumar, MD & CEO, GOCL Corp. Ltd



- 78 **MY STORY:** "Books Have Been An Integral Part Of My Life" — Prof. S. Sadagopan, An Educator And Thought Leader



- 84 **INTERVIEW:** "Startups, With Their Entrepreneurial Mindset And Nimbleness, Often Hold The Key To Innovation" — Rahul Mathur, Director, TE Connectivity



DESIGN

- 87 **PRODUCT:** Creating Self-Evident Design
- 92 **TIPS:** Innovating In The Post-Pandemic World: Technology, Workplace, And Design
- 94 **CIRCUIT:** Interesting Reference Designs Of Smart Electric Meters

DO-IT-YOURSELF

- 96 **PROJECT:** Hector SLAM Mapping And Positioning With ROS And Lidar
- 100 **PROJECT:** Smart Electronic Voting Machine (EVM)
- 104 **CIRCUIT IDEA:** Short Circuit Protection Of Electrical Motor And Battery In Electrical Vehicle
- 106 **CIRCUIT IDEA:** Automatic Dispenser Using LM555
- 109 **PROJECT:** Artificial Plant Water Showers To Beat The Heat!
- 113 **CIRCUIT IDEA:** Wireless Call Bell

REGULARS

- 8 **Research & Innovation Updates**
- 13 **Truly Innovative Electronics**
- 16 **New Products**
- 52 **Dashboard: Key Industry Trends**

- That Can Shape The Future Of Your Business
- 54 **Startups & Innovators**
- 60 **Industry News: Industry Updates**

Cover Story and Cover photo courtesy: Comet EV (www.mgmotor.co.in), eC3 (www.cltroon.in), Tiago EV (<https://tiagoev.tatamotors.com>), Tigor EV (<https://tigorev.tatamotors.com>), Nexon EV Prime (<https://nexonev.tatamotors.com>), Nexon EV Max (<https://nexonev.tatamotors.com>), XUV400 (<https://mahindraelectricautomobile.com>), ZS EV (www.mgmotor.co.in), Kona (www.hyundai.com), Atto 3 (<https://bydautoindia.com>), e6 (<https://bydautoindia.com/all-new-e6>)

- EDITOR** : Rahul Chopra
- EDITORIAL CORRESPONDENCE** : Phone: +91-981155335
E-mail: editop@efy.in
- SUBSCRIPTIONS & MISSING ISSUES** : Phone: +91-981155335
E-mail: support@efy.in
- BACK ISSUES, BOOKS, KITS, COMPONENTS, etc** : Phone: +91-981155335
E-mail: support@efy.in
- NEWSSTAND DISTRIBUTION** : Phone: +91-981155335
E-mail: efydrc@efy.in
- ADVERTISEMENTS NEW DELHI (HEAD OFFICE)** : Phone: +91-981155335
E-mail: efyenq@efy.in
- MUMBAI** : E-mail: mmwest@efy.in
- BENGALURU** : E-mail: rmosouth@efy.in

- CHINA** : Worldwide Focus Media
E-mail: china@efy.in
- GERMANY** : PMS Plantenberg Media Service GmbH
E-mail: germany@efy.in
- JAPAN** : Tandem Inc.
E-mail: japan@efy.in
- TAIWAN** : J.K. Media
E-mail: taiwan@efy.in
- UNITED KINGDOM** : ASA Media
E-mail: uk@efy.in
- UNITED STATES** : E & Tech Media
E-mail: usa@efy.in

Printed, published and owned by Ramesh Chopra. Printed at M.P. Printers, B-220, Phase-2, NOIDA-201305, Uttar Pradesh, on the first day of each month and published from D-87/1, Okhla Industrial Area, Phase-1, New Delhi 110020. Copyright 2023. All rights reserved throughout the world. Reproduction of any material from this magazine in any manner without the written permission of the publisher is prohibited. Although every effort is made to ensure accuracy, no responsibility whatsoever is taken for any loss due to publishing errors. EFY will not be responsible for any wrong claims made by an advertiser. Disputes, if any, will be settled in a New Delhi court only.

SUBSCRIPTION RATES

EFY = Electronics For You

PRINT MAGAZINE	1 YEAR	3 YEARS	5 YEARS
	(12 copies each)	(36 copies each)	(60 copies each)
WITHIN INDIA (IN RUPEES)			
EFY (Rs 100/copy)	840	2150	3000
SAARC COUNTRIES (IN US\$ BY AIR)			
EFY	50	135	NA
OTHER COUNTRIES (IN US\$ BY AIR)			
EFY	100	270	NA

Courier delivery within India @ Rs 50 per copy
 e-magazine subscriptions within India are available at half the rates mentioned here.

Overseas rates for each e-magazine in US\$: Please send payment to EFY Enterprises Pvt Ltd through demand draft/cheque/money order to D-87/1, Okhla Industrial Area, Phase 1, New Delhi 110020, or online at: <http://subscribe.efyindia.com> or scan the QR code.

