

IEI

Epitome

January 2018, Volume 3, Number 1

Wishing You All Happy New Year 2018

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Mr Sisir Kumar Banerjee, FIE takes charge as President of The Institution of Engineers (India)



Hon'ble President of India, Mr Ram Nath Kovind and President, IEI during 32nd Indian Engineering Congress, December 23, 2017 at Chennai

Mr. M. M. Kamath, FIE

Former Chairman of the Institution of Engineers(India) Mangalore Local Centre, Mangalore & Former Chief Engineer of New Mangalore Port

Gold Medalist of the First Batch was the Chief Guest and was honoured during celebration of Diamond Jubilee of Manipal Institute of Technology on December 17, 2018.



Mr. Nilesh Sanjay Wakchaure, AMIE

Assistant Professor, K. K. Wagh Institute of Engineering Education and Research, Nashik

Completed 12 weeks NPTEL Course on "Energy Conservation and Waste Heat Recovery [1]" Conducted by IIT Kharagpur.



Prof. Rupa. Ch, AMIE

Dept. of CSE, V. R. Siddhartha Engineering College, Vijayawada.

Received CCNA Certification on "Cyber Security" from Cisco Networking Academy on Nov 21, 2017.



Mr. Deepesh Gupta, AMIE

Associate, Leslie E Robertson Associates, Mumbai

Delivered a lecture at PEC University of Technology, Chandigarh on "Insight into Design of Tall Buildings" on September 27, 2017. The lecture was a part of the Industry-Academia Connect Week at the college campus.



Dr. Indrasen Singh, FIE

Senior Professor and Dean, National Institute of Construction Management and Research, Goa

Conferred with "Bharat Jyoti Puraskar 2017" by The Best Citizen Publishing House – The World Most Leading Biographical Specialists.



Members

in the News

Mr. Fasludeen N. S., AMIE

Department of Post-Harvest Engineering and Technology,
Aligarh Muslim University, Aligarh



Received “Excellence in Research Award” from Society for Scientific Development in Agriculture and Technology, Meerut on the occasion of International Conference “Global Research Initiative for Sustainable Development in Agriculture and Allied Subjects 2017 (GRISAAS 2017)

organized by Maharana Pratap University of Agriculture and Technology Udaipur, University of Agricultural Sciences Raichur, Chandra Shekhar Azad University of Agriculture and Technology Kanpur and Astha foundation Meerut at Maharana Pratap University of Agriculture and Technology Udaipur on December 2-4, 2017.

Mr. Dambarudhar Ojha, MIE

Executive Engineer (Elect.), WESCO Utility, Odisha

- Attended two days workshop on “Emerging Trends in Electricity Market (Present and Future)” organised by Central Power Research Institute, Bangalore from Nov 23 – 24, 2017.



- Participated in the Capacity Building Programme on 'Demand Side Management and Energy Efficiency' conducted by Bureau of Energy Efficiency, Ministry of Power, Govt. of India from November 9-11, 2017 at Bolangir, Odisha.

Dr. Sudhansu S. Sahoo, MIE

Asst. Professor, Department of Mechanical Engineering,
CET Bhubaneswar, Techno Campus, Ghatikia
Bhubaneswar



Participated in ISER International Conference on Heat Transfer and Fluid Flow in Boston, USA on December 14-15, 2017. Received Excellent paper award for Best Presentation on the paper titled “Heat transfer modelling and analysis of flat plate solar collector with triple fluid heat exchanger and sensible thermal storage system”.



Mr. Srinivas Bachu, AMIE

Associate Professor, Dept. of ECE,
GNITC, Hyderabad

Received “Adarsh Vidya Sarswathi Rastriya Puraskar Award” from Global Management Council on 2nd November 2017.

Mr. Vishnu Rajaram Bankar, AMIE

Bajaj Auto Ltd., Chakan, Pune

- Awarded by “Mahatma Phule Samajratna Puraskar-Educational, Social & Industrial Award-2017, Maharashtra State” by ‘Mahatma Phule Smrutidin Aayojan Samiti, Latur Maharashtra State’ on November 26, 2017. He contributed excellent achievements in educational, social & industrial area.



- Awarded by “Best Technical Research Paper Award:2016-17 (Mechanical Engineering)” for his paper on ‘Assembly Defect Elimination By FTA Technique’ published in ISBN at the ‘All India Seminar & Annual Technical Paper Meet’ organized by ‘The Institution of Engineers (India), Pune during October 7-8, 2017.

Mr. Swapnil S. Desai, MIE

Mechanical Engineer, Navi Mumbai Municipality Corporation.



- Completed short course on “Service level benchmarking” held at ASCI (Administrative Staff College of India) Hyderabad.
- National training course on “Wind Energy Technology” held at National Institute of Wind Energy Chennai. (Formerly C- Wet).
- Short Course on “Solar photovoltaic off-grid and on-grid: Design & Installation” at Iacharya Silicon Limited Chennai by MNRE Solar radiation resource assessment of NIWE (National Institute of Wind Energy).
- Attended “14 International Exhibition & Conference on Smart & Sustainable City Solutions” held at Navi Mumbai 18-20 May 2017.

Members

in the News

Mr. Patanjali J Mishra, MIE

Executive Engineer R & B Deptt, Guj. Service of Engrs. Govt of Gujarat



Elected as representative of Gujarat State in the Governing Council of Indian Building Council of India on December 22, 2017 for the Year 2017-2018.

Mr. H. N. Bhange, MIE

Assistant Professor, Dept of SWCE, CAET, Dapoli

Awarded Ph.D. on the topic, "Characterization of Groundwater Prospects and Water Quality for Konkan Region of Maharashtra using Remote Sensing and Geographical Information System" in the Department of Soil and Water Engineering, Maharana Pratap University of Agriculture and Technology, Udaipur on December 22, 2017.



Dr. Ing. B. V. A. Rao, FIE

Former Professor, IIT, Madras

Received WFEO 2017 Award of Excellence in Engineering Education on December 01, 2017 in Roma, Italy.



Mr. P. R. Seshadri, FIE

Former Chairman, Tamilnadu State Centre, IEI

Re-elected as President of Indian Institution of Technical Arbitrators (IIT Arb.) for the term 2017-19.

Prof. M. N. Talawar, MIE

Selection Grade Lecturer, B.V.V.S. Polytechnic, Bagalkot

Received best Polytechnic Teacher award from ISTE, New Delhi.



Mr. Kshitij D. Verma, AMIE

Dy. Executive Engineer, GWSSB, Surat, Gujarat & Doctoral Research Scholar, Applied Mechanics Department, Sardar Vallabhbhai National Institute of Technology, Surat



Attended the CSIR-CECRI, Industry/Academy Oriented Technology Refresher Course on "Cathodic Protection and Pipeline Corrosion" held at CSIR-Central Electrochemical Research Institute, Karaikudi, Tamilnadu from August 28 to September 1, 2017.

All Corporate Members of IEI are requested to send their Achievements and Publications to :

newsletter@ieindia.org

in the following format

For Journal Publication: Title of the Paper/s, Full name of the Journal, Vol no., Issue no., year of publication, pp and DOI (if available), Co-author/s (if any)

For Conference Publication: Title of the Paper/s, Full name of the Conference, year of publication, pp and DOI (if available), Co-author/s (if any)

Publications by Members

Dr. Jyoti Bhilawe, AMIE

Senior Manager, K & J Project Pvt. Ltd., Nagpur

Title of Paper : "Study of Equal Angle Subjected to Compression for Bolted end Connection", *Journal of the Institution of Engineers (India): Series A (ISSN 2250-2149), DOI 10.1007/s40030-017-0245-8.*

**Mr. Sachin Ganpatrao Ghalme, MIE**

Asst. Professor, Department of Mechanical Engineering, Sandip Institute of Technology and Research Center, Nashik



Title of Paper : "Wear Performance Optimization of Silicon Nitride using Genetic and Simulated Annealing Algorithm", *Journal of Engineering Science and Technology, Vol.12 (2017), pp. 3120-3135.*

Mr. S. Nagaraju, FIE

Scientific Officer-G, Homi Bhabha National Institute & Bhabha Atomic Research Center, Mumbai.

Title of Paper : "Effect of Welding Processes on the Microstructure, Mechanical Properties and Residual Stresses of Plain 9Cr-1Mo Steel Weld Joints", *Journal of Materials Engineering and Performance* Issue : <https://doi.org/10.1007/s11665-017-3077-9> (Online published), November : 2017.

Co-author(s) : P. Vasantharaja, G. Brahadees, M. Vasudevan, and S. Mahadevan

**Mr. Ram Naresh Mishra, MIE**

Assistant Professor, Department of Electrical Engineering, GLA University, Mathura

Title of Paper : "Current Scenario of Electricity Sector in India and Restructuring" Published in *IEEE Sponsored 41st National Systems Conference Proceedings* organized by DEI (Deemed University) Agra, December 1-3, 2017.

Co-author : D.K. Chaturvedi

**Mr. Nilesh Sanjay Wakchaure, AMIE**

Assistant Professor, K. K. Wagh Institute of Engineering Education and Research, Nashik



Title of Paper : "Performance Analysis of Solar Absorber for Different Absorber Coating Materials", *International Conference on Manufacturing Excellence (ICMAX-2017), March 3-4, 2017, organized by Department of Production Engineering, K. K. Wagh*

Institute of Engineering Education & Research, Nashik, ISBN : 978-93-24457-41-5

Co-author(s) : S. S. Joshi, D. K. Sakhare

Mr. Jayant Kadam, FIE

Technical Director - Structwel Designers and Consultants Pvt. Ltd., Maharashtra

Title of Paper : "Repair & Retrofitting – Case Studies", *Conference on Repairs, Retrofitting & Forensic Engineering of Structures* held on November 24-25, 2017 organized by India Chapter of American Concrete Institute at Lalit Hotel, Sahar Airport Road, Andheri East, Mumbai.

Co-author : Swanand Raikar



Publications by Members

Prof. M. Palanisamy, AMIE

Head, Department of Civil Engineering, Balaji Institute of Technology and science, Narsampet, Warangal

Title of Paper : “A Study on Seismic Responses of Reinforced Concrete (RC) Buildings with Lateral Force Resisting Systems”, *International Journal of Civil Engineering and Technology (IJCIET)*, Vol. 8 issue - 7, July 2017, pp 1239-1254.



Dr. Abhishek Jain, MIE

Assistant Professor-III, Amity University, Rajasthan



Title of Paper : “An ISM approach to identify key success factors behind the TPM implementation in Indian SMEs”, *International Journal of Productivity and Quality Management (IJPQM) (Scopus Index)*, (ISSN: 1746-6474), Volume 22, Issue 1, pp. 42 - 59.

Mr. Swapnil S. Desai, MIE

Navi Mumbai Municipal Corporation

Title of Paper : “Recycling, Reuse & Economics of Treated Wastewater in Urban India”, *International Journal of Engineering Research in Mechanical & Civil Engineering (IJERMCE)* Vol 2, Issue 12, December 2017.



Mr. Prasanna Venkatesan Theerthagiri, AMIE

Researcher, Adhiyamaan College of Engineering, Anna University, Chennai

Title of Paper : “Significance of Scalability for On-Demand Routing Protocols in MANETs”, *IEEE Conference on Emerging Devices & Smart Systems (ICEDSS2016)*, Namakkal, pp. 76-82, 4-5 March 2016 at Mahendra Engineering College, India, <http://www.mahendra.info/ICEDSS>

Co-author(s) : T. Menakadevi



Mr. Vikrant Tapas, MIE

Workshop Superintendent, NMDC DAV Polytechnic Dantewada

Title of Paper : “Study of Tampering Odometer Reading in Motor Vehicle” *Global Journal of Multidisciplinary Studies (GJMS)*, ISSN: 2348-0459 Volume-6, Issue - 8, July 2017 pages 27-32.



Title of Paper: “Study of Parameters to be checked for Modification in Changing Disc Wheel for Radial Tyre in Four Wheelers” *International Research Journal of Engineering and Technology (IRJET)* ISSN: 2395-0056, Volume-4, Issue-11, November 2017, pages 1383-1384.

Ms. Padmaja Gokaraju, FIE

AVP-Design & Product Development, M/s Kirby Building Systems India (Pvt.) Ltd



Title of Paper : “Strength and Behaviour of Composite Filled Tubes”, *Steel Construction Summit 2017 – New Delhi Chapter: SSMB.IN*, Vol. 7, Issue 11, September 2017, pp 46-49.

Co Authors : V. V. V. S Murty and N. V. Ramana Rao

Title of Paper : “Comparative Structural Performance of Composite Filled Tubes”, *International Conference on Composite Materials and Structures-2017*, IIT Hyderabad, December 2017.

Co Authors : V. V. V. S Murty and N. V. Ramana Rao

Publications by Members

Mr. Tribeni Roy, AMIE

Research Scholar, Homi Bhabha National Institute (Bhabha Atomic Research Centre), Anushaktinagar

Title of Paper : “Prediction of Material Removal in Single Spark Micro-EDM using Multiple Linear Regression and CART”, *10th International Conference on Precision, Meso, Micro and Nano Engineering* organized by IIT Madras on December 07-09, 2017, published in proceedings with ISBN 978-93-80689-28-9.



Co-authors : Siddhant Sundaram, Prabhat Ranjan and R. Balasubramaniam

Title of Paper : “Recast layer thickness characterization of array of micro features using X-Ray micro computed tomography”, *International Conference On Advances in Thermal System, Materials and Design Engineering (ATSMDE – 2017)* organized by VJTI, Mumbai on December 21-22, 2017).

Co-authors : P. S. Sarkar, D. Datta and R. Balasubramaniam

Title of Paper : “Molecular Dynamics Simulation of Mechanical Polishing”, *10th International Conference on Precision, Meso, Micro and Nano Engineering* organized by IIT Madras on December 07-09, 2017.

[ISBN 978-93-80689-28-9]

Co-authors : Prabhat Ranjan, Anuj Sharma, R. Balasubramaniam and V. K. Jain

Prof. Sathyanesan T Narayanan, FIE

Former Professor, Department of Mechanical Engineering, Government Engineering College, Thrissur

Title of Paper : “Satyan Steering Gear”, *15th International Conference on Ergonomics for Improved Productivity, Organized by Department of Mechanical Engineering, Aligarh Muslim University, Aligarh, December 08-10, 2017.*



[ISBN: 978-93-86724-25-0]

Dr. B Venkateswara Rao, MIE

Associate Professor, Department of EEE, V R Siddhartha Engineering College (Autonomous), Kanuru, Vijayawada

Title of Paper : “Artificial Intelligence based Machine Learning Assistance for Self-Driving Car using Raspberry PI”, *International Journal of Advance Research in Science and Engineering, Volume 6, Issue 11, November 2017, pp. 1718-1724.*

Co-author: MV Rajesh

**Prof. A. K. A. Rathi, FIE**

Former Professor, CEPT University, Director (Environment), Govt of Gujarat, Chief technical Adviser, Govt of Gujarat

Title of Paper : “Evaluation of Project-level Environmental Impact Assessment and SWOT Analysis of EIA Process in India” *Environmental Impact Assessment Review* 67 Nov, 2017, Elsevier, pp. 31-39.



Publications by Members

Mr. Yakkali Naga Sankara Rao, AMIE

PG Scholar, Dept. of Electrical and Electronics Engineering,
JNTU College of Engg., Ananthapuramu

Title of Paper : "Phase Current Control in Grid Connected Photo Voltaic Power Plants to Avoid Over Voltages in Healthy Phases", *IRJET, Volume 4 and Issue 5, pp 3491-97.*

Co-author : M. Vijay Kumar



Mr. P. Sivakumar, AMIE

Senior Instructor, Department of Civil Engineering, North Eastern Regional Institute of Science and Technology (NERIST) Nirjuli, Itanagar

Title of Paper : "Hydraulic Simulation Techniques for Water Distribution Networks to Treat Pressure Deficient Conditions" by Ho Min Lee, Do Guen Yoo, Joong Hoon Kim, and Doosun Kang, *Journal of Water Resources Planning and Management (ASCE), 144 (3), 07017006-1-2, DOI: 10.1061/(ASCE)HY.1943-5452.0000624, (2018).*

Co-authors : Gorev, N. B., Kodzhesspirova, I. F.



Mr. Sanjay Mahajan, MIE

Department of Physics & Electronics, University of Jammu Jammu

Title of Paper : "Development of Silicon Sensor Characterisation System for Future High Energy Physics Experiments", *Journal of Instrument Society Of India, Vol. 47, No. 2, June 2017, pp. 57-59.*

Co author(s): Aju Bhasin, Anik Gupta, Sukhdeep Kaur, Samreen Kaur



Dr. Ramya, V, AMIE

Dept. of Processing and Food Engineering, College of Technology and Engineering, Maharana Pratap University of Agriculture and Technology, Udaipur

Title of Paper : "A Review on Osmotic Dehydration of Fruits and Vegetables- An Integrated Approach", *Journal of Food Process Engineering, Wiley Periodicals, Vol. 40, 2017.*



Mr. A. Muthu Manokar, AMIE

Department of Mechanical Engineering, Kamaraj College of Engineering and Technology, Virudhunagar

Title of Paper : "Sustainable Fresh Water and Power Production by Integrating PV Panel in Inclined Solar Still", *Journal of Cleaner Production, Elsevier, <https://doi.org/10.1016/j.jclepro.2017.11.140>, Volume 172, Pages 2711-2719, 20 January 2018, Impact Factor: 5.715.*



Mr. Swapnil S. Desai, MIE

Mechanical Engineer, Navi Mumbai Municipality Corporation

Title of Paper : "Recycling, Reuse, & Economics of Treated Wastewater in Urban India", *International Journal of Engineering Research in Mechanical & Civil Engineering (IJERMCE) Vol 2, Issue 12, December 2017.*



Publications by Members

Dr. Sudhansu S. Sahoo, MIE

Asst. Professor, Department of Mechanical Engineering
CET Bhubaneswar. Techno Campus, Ghatikia, Bhubaneswar

Title of Paper : "Numerical Study on Phase Change of Water Flowing Across Two Heated Circular Cylinders in Tandem Arrangement", *Heat Transfer-Asian Research*, Volume 46, Issue 7, pp 656-680, November 2017.



[<http://onlinelibrary.wiley.com/doi/10.1002/htj.21236/full>]

Title of Paper : "Construction of Box Type Solar Cooker and Its Adaptability to Industrialized Zone", *Proceedings of Materials Today*, Volume, pp 12565-12570, 2017, <http://www.sciencedirect.com/science/article/pii/S221478531720758>.

Title of Paper : "Thermal Performance Analysis of a Box-Type Solar Cooker with Finned Pot: An Experimental Approach", *Advances in Smart Grid and Renewable Energy*, pp 575-582, November 2017, Springer Singapore", https://link.springer.com/chapter/10.1007/978-981-10-4286-7_57.

Prof. Vijayan Gurumurthy Iyer, FIE

Department of Civil Engg., Nasaraopeta Engineering College(Autonomous), (Affiliated to Jawaharlal Nehru Technological University), Narasaraopeta



Title of Paper : "Total Quality Management (TQM) in Education Sector and Its Implementation Framework Towards Sustainable National Development", 32nd Indian Engineering Congress, Theme entitled "Innovation in Engineering: Competitive Strategy Perspective" (ISBN: 978-93-86724-29-8),

December 21-23, 2017, pp 412-421.

Title of Paper : "Environmental Health Impact Assessment(EHIA) Process for Industrial Concrete Batching Plants", In Abstract book of the 4th World Conference on Psychology Sciences (WCPSY) organized by Academic World Education and Research Center, December 7-9, 2017, Thessaloniki, Greece, pp 11.

Dr. Golagani A V R C Rao, AMIE

Assoc .Professor, CSE Department, Medha Institute of Science and Technology for Women, Khammam. Affiliated to JNTUH



Title of Paper : "Words Extracting Provider for Rail Disasters", *International Journal of Innovative Technology and Research*, Volume : 5, Issue No.5, pp. 1-3, September 2017.

Co-author : Vanka Lavanya

Mr. N. Nethaji, MIE

Senior Lecturer in Mechanical Engineering, Dharmapuri Dist. Co-op. Sugar Mills Polytechnic College, Palacode, Dharmapuri Dt. Department of Sugar, Govt of Tamil Nadu, Palacode



Title of Paper : "Application of Heat Pipes in HVAC Systems: a Review", *Advances in Natural and Applied Sciences*, vol. 11, Issue 9, pp 277-284 (Impact Factor 2.70). 2017.

Co-author : S Tharves Mohideen

Title of Paper : "Energy Conservation in Domestic Refrigerators by Cooling Compressor Shell – A Case Study", *Case Studies in Thermal Engineering DOI 10.1016/j.csite.2017.08.002*, (Impact Factor – 2.70). 2017.

Co-author : S Tharves Mohideen

Dr. M. A. Srinivasu, AMIE

Asst. Professor, Department of Computer Science & Engineering, RIT, Visakhapatnam



Title of Paper : "Big Data: Challenges and Solutions", *International Journal of Computer Sciences and Engineering*, Vol.5, Issue 10, Oct 2017. UGC Approved journal: E-ISSN: 2347-2693.

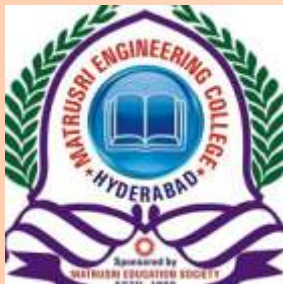
Welcome to IEI New Institutional Members



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Engineering & Technology**
Karukutty, Kerala



**Dr B R Ambedkar National
Institute of Technology**
Jalandhar, Punjab



Matrusri Engineering College
Hyderabad, Telangana



**Vidya Jyothi Institute
of Technology**
Hyderabad, Telangana



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Bangalore, Karnataka



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Welcome to IEI New Institutional Members



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Khorda, Odisha



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College of Engineering
and Technology**
Idukki, Kerala



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Engineering College**
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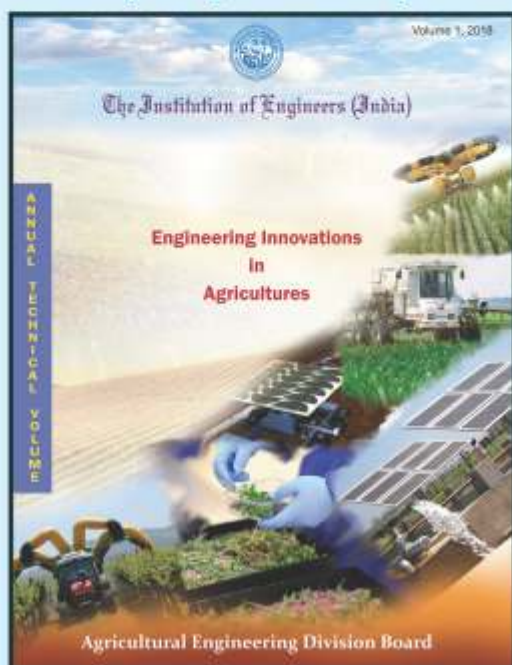


**Sri Sivasubramaniya Nadar
College Of Engg**
Kalavakkam, Tamilnadu

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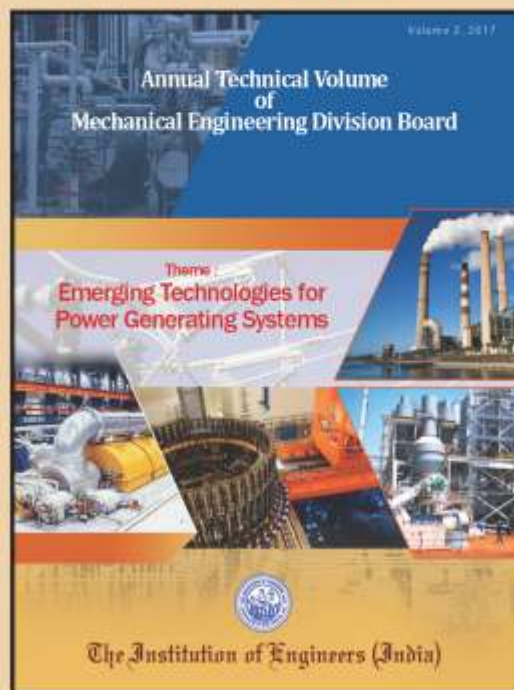
Agricultural Engineering Division Board

Theme: "Engineering Innovations in Agricultures"



ISBN: 978-81-936149-4-5

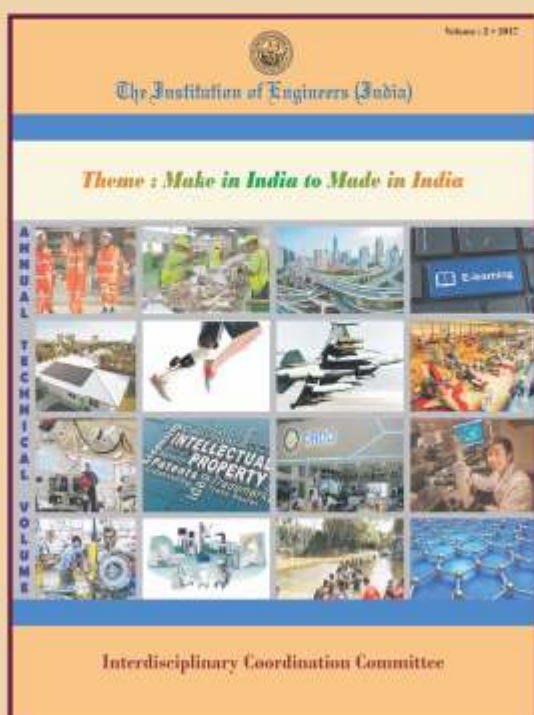
Mechanical Engineering Division Board



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Interdisciplinary Coordination Committee

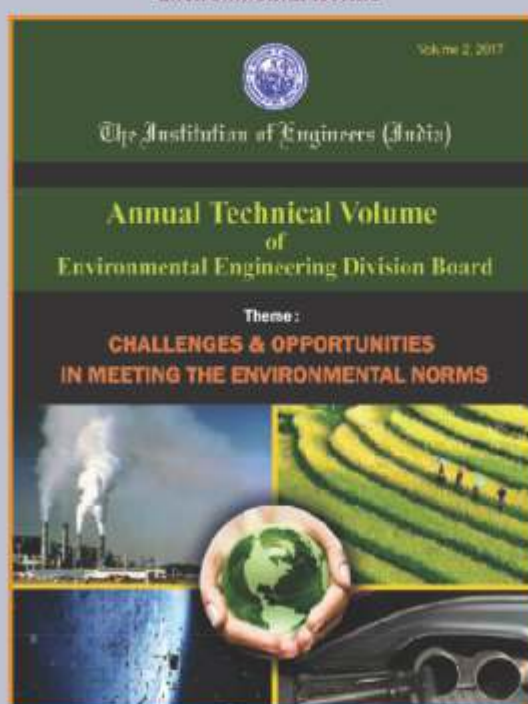
Theme: "Make in India to Made in India"



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IEI – Springer Journal Series

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Dr S N Jha, Indian Council of Agricultural Research, New Delhi
Dr E Rajasekar, Department of Architecture and Planning, IIT Roorke



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Prof. U. S. Dixit, Dept. of Mech. Engg., IIT Guwahati
Dr. B. K. Saxena, Principal, Tolani Maritime Inst., Pune
Prof. A.K. Agarwal, Dept. of Mech. Engg., IIT Kanpur



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Editor-in-Chief:

Prof. N. R. Bandyopadhyay, School of Materials Science & Engineering
Indian Institute of Engineering Science and Technology, Shibpur

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Prof. Shubhabrata Dutta, SRM University, Chennai
Prof S. P. Banerjee, Indian School of Mines, Dhanbad



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Editor-in-Chief:

Prof. A. R. Balakrishnan
Dept. of Chemical Engg., IIT Madras

Associate Editor:

Dr. Abhijit Majumdar, Dept. of Textile Technology, IIT Delhi



bookreview



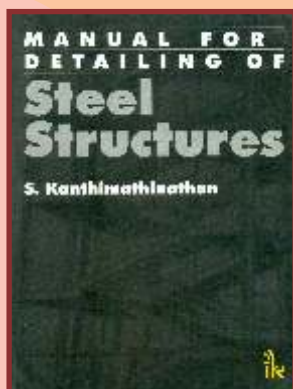
Mr. S. Kanthimathinathan, FIE

Structural Engineering Trainer and Consultant, Member of Indian Society of Technical Education, Member of Indian Concrete Institute

Publisher: I.K. International Publishing House Pvt. Ltd

Manual for Detailing of Steel Structures

With more than 45 years of experience in the analysis, design and detailing of RCC and steel structures including boiler supporting steel structures and industrial structures, as well as in the field of erection of steel structures, the author has written the book 'Manual for Detailing of Steel Structures'.



Steel structures of any industry consists of beams, columns, base plates, anchor bolts, bracing members, crane gantry, girders, plate girders, stairs, ladders, hand rails, floor grills, etc. and their connections both welding and bolting systems.

The author has given details of slab base & stiffened base of columns, Indian Standard rolled sections used in single section and built-up battened & laced columns. The details of welded and bolted connections between upper

column & lower column, beam & column, beam to beam and bracing to gusset. Ready to use/select tables having all the necessary details for cutting the members number of bolts required for standard rolled sections with edge & pitch distance are given which saves the designers time to a greater extent.

This book is complete in all respects in theory and practice of small scale and large scale in steel structural work with technical data and tables with pictorial representation and other information of practical nature as per Indian Standards.

The author also showed keen interest in full filling the needs of a structural engineer by giving example drawings about the rolled sections and their connections in order to clarify the doubts and enhance the knowledge in steel structure detailing.

In addition to structural detailing, the book contains many chapters, practical data and tables which have great use for practicing engineers, draftsmen etc., in the profession.

As a reference book, it is a user friendly companion for structural design & drafting engineer, erectors, teaching faculty who teaches design of steel structures and also very useful for the students in understanding the subject of steel structural design.

Limit State Design of Steel Structures

With more than 45 years of experience in the analysis, design and detailing of RCC and steel structures including boiler supporting steel structures, as well as in the field of erection of steel structures, the author has written the book 'Limit State Design of Steel Structures'. Steel structures of any industry consists of beams, columns, base plates, anchor bolts, bracing members, crane gantry girders, stairs, ladders, floor grills, etc.

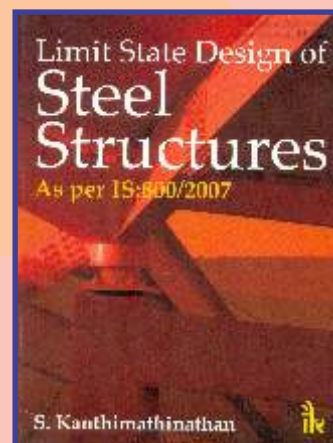
The author has given the analysis and design of tension members, compression members, flexural members, column bases, welded and bolted structural connections, roof trusses and also calculation of wind load and earthquake load on structures with relevant clause numbers of the Indian standards there itself to enable the reader to go through the clause of the standards.

The author has also given the ideal designs such as design of purlins and sag rod, platform beams, stiffened gusseted bases, design of built-up members like battened and lacing columns, plate girder, gantry girder and also tables for weld and splice strengths and strength of bolts etc.

The author showed keen interest in fulfilling the needs of a structural engineer by giving the example problem for all designs with including with relevant clause numbers of the Indian standards there itself to enable the reader to go through the clause of the standards.

This book is complete in all respects in theory and design of steel structures with technical data and tables in order to clarify the doubts and enhance knowledge in steel design.

As a reference book, it is a user friendly companion for structural design engineer, practicing engineers. Since it also covers the syllabus for university papers it will very useful to teaching faculty who teaches design of steel structures and for the students in understanding the subject of steel structural design.



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