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Dr. Wooday P Krishna, FIE

Member of the Council, The Institution of Engineers (India)

Has been re-elected to the 'National Executive Committee' of the 'Tuberculosis Association of India', New Delhi on March 27, 2019 for the sixth time in succession for a two years term.



Dr. Suresh Vishwakarma, MIE

Senior Electrical Engineer, Vancouver, Canada

Elected as the Chairman of 'Chartered Engineers Pacific (CEP)' based in Vancouver for the year 2019.



Prof. Mahesh Chandra Tandon, FIE

Managing Director, Tandon Consultants Pvt. Ltd., New Delhi



- Conferred with Distinguished Alumnus Award – 2018 by IIT Roorkee in the category of 'Excellence in Engineering or Technology Innovation'

- Honoured with UK-India Education and Research Initiative (UKIERI) Award for his Outstanding Contributions in the area

of Cement and Concrete Science, Technology, Design and Construction at the UKIERI Concrete Congress held on March 5-8, 2019.

Prof. V D Mudgal, FIE

Department of Processing and Food Engineering, College of Technology and Engineering, Maharana Pratap University of Agriculture and Technology, Udaipur, Rajasthan

Conferred with 'Fellow Award' for 2018 from Indian Society of Agricultural Engineers, New Delhi on 53rd Annual Convention at Banaras Hindu University, Varanasi during January 28-30, 2019.



Mr. S Nagaraju, FIE

Scientific Officer-G, Bhabha Atomic Research Center, Tarapur

Delivered a Talk on 'Industrial Safety and Precautions during Earthquake and Other Natural Calamities' organised by Directorate of Industrial Safety and Health in Collaboration with Tarapur Industrial Manufacturers' Association (TIMA) at Tarapur on March 09, 2019.



Dr. Pranjal Kumar Phukan, MIE

Global Mentor, International Supply Chain Education Alliance; Regional General Secretary, Center for the Advanced Study of India; Global US Executive Council Member, Hong Kong

Participated in 'IESS VIII 2019' programme on the session 'Vendor Development Meet' with Indian PSUs organized by Engineering Export Promotion Council, India under the aegis of Ministry of Commerce & Industry, Department of Heavy Industries, Government of India, Ministry of MSME, Chennai on March 15, 2019.



MEMBERS IN THE NEWS

Prof. Abhijit Mitra, FIE

University Institute of Technology, University of Burdwan, Burdwan, West Bengal

- Was invited as the 'Chief Guest' in Biennial Conference of the State Federation of Diploma Engineers, West Bengal, on February 23, 2019 at Burdwan.

- Was invited at ABS Academy, Durgapur on February 25, 2019 as Resource Person for Faculty Development Program to deliver a Talk on 'NBA Accreditation : Necessity and Introduction'.



Dr. K Kumar, AMIE

Assistant Professor, Department of Electrical & Electronics Engineering, S V College of Engineering, Tirupati, Andhra Pradesh

Awarded Doctor of Philosophy from Vellore Institute of Technology, Vellore on the topic, 'Performance Analysis of Power Converters with Single MPPT Controller for Standalone / Grid-Connected Hybrid Solar and Wind Energy System' on February 25, 2019.



Prof. Deepak Annasaheb Vidhate, MIE

Head, Department of Information Technology, Dr Vithalrao Vikhe Patil College of Engineering, Ahmednagar, Maharashtra

Awarded Doctor of Philosophy in Computer Engineering by Savitribai Phule Pune University, Pune from College of Engineering, Pune on the topic, 'Context based Co-operative Decision Making Algorithms for Diagnostic Application' on January 30, 2019.



Mr. Shahwaz Mustafa Khan, AMIE

Engineer, QD-SBG Construction, Qatar, Saudi Arabia

- Invited as Resource Speaker for giving a presentation on 'Plastics : Environmental Impacts and Control Strategies' in IRSM Qatar Branch Meeting on March 19, 2019.

- Successfully completed 'LEED Green Associate Examination' of US Green Building Council on January 28, 2019.

- Successfully completed 'Global Sustainability Assessment System - Certified Green Professional (Design & Build) Examination' at GORD Academy, Qatar on January 13, 2019.



Mr. Vinay Kumar Shukla, MIE

Manager, Instrumentation Department, National Fertilizers Limited, Guna, Madhya Pradesh

Awarded Second Prize in 'Safety Week Competition' organized by Safety Department, National Fertilizers Limited on March 08, 2019.



Mr. Prodyut Maji, MIE

Associate General Manager – Project, Adani Synenergy Ltd., Ahmedabad, Gujarat

Title of Paper: ‘Clean Coal Technologies, Coal Gasification and Coal-to-Liquid Conversion,’ *Proceeding of Ninth World Petro Coal Conference*, New Delhi, February 16, 2019.



Prof. Lakhwinder Singh, FIE

Dean (Academics), Department of Electrical Engineering, Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, Jalandhar

Title of Paper: ‘Effectiveness of UPQC in Mitigating Harmonics Generated by an Induction Furnace’, *Electric Power Components and Systems*, Vol. 46, No. 6, 2018, pp. 629-636.

[<https://www.tandfonline.com/doi/abs/10.1080/15325008.2018.1460641?journalCode=uemp20>]

Co-authors: Tejinder Singh Saggi, Balbir Gill, Om Parkash Malik



Mr. S B Santra, MIE

Assistant Professor, Department of Electrical Engineering, KIIT University, Bhubaneswar

Title of Papers:



- ‘Performance Analysis of Three-Phase Propulsion Inverter for EVs using GaN Semiconductor Devices’, *IEEE Transaction on Industrial Application*, Vol. 54, No. 6, November 2018

[<https://ieeexplore.ieee.org/document/8424419/authors#authors>]

Co-author: Kundan Kumar

- ‘Selection of Optimal Capacitor Value of PV System for Maximum Power Point Tracking’, *IEEE PEDES-2018*, IIT Madras, Chennai, December 18-21, 2018.

[<http://www.ee.iitm.ac.in/PEDES2018/home/>]

Co-authors: Debashis Chatterjee, Shobhan Banerjee, Kundan Kumar, Manuele Bertoluzzo

Mr. Varun Shukla, MIE

Assistant Professor, Department of Electronics and Communication Engineering, Pranveer Singh Institute of Technology, Kanpur, Uttar Pradesh

Title of Papers:



- ‘Nanotechnology and Cryptographic Protocols : Issues and Possible Solutions’, *Nanomaterials and Energy*, Vol. 8, No. 1, 2019, pp. 1-6.

Co-authors: Atul Chaturvedi, Neelam Srivastava

- ‘Three Party Key Sharing Protocol using Polynomial Rings’, *IEEE UPCON 18*,

Gorakhpur, November 2-4, 2018.

[<https://ieeexplore.ieee.org/document/8596905>]

Co-authors: Atul Chaturvedi, Manoi Kumar Misra

Mr. P Sivakumar, AMIE

Senior Instructor, Department of Civil Engineering, North Eastern Regional Institute of Science and Technology, Itanagar, Arunachal Pradesh

Title of Paper: ‘Analysis of Water Distribution Network under Pressure-deficient Conditions through Emitter Setting,’ *Drinking Water Engineering and Science*, *Copernicus Publications*, Vol. 12, No. 1, 2019, pp.1-13.

[<https://www.drink-water-eng-sci.net/12/1/2019/>]

Co-authors: Suribabu C Ravi, N T Renganathan, Diego Paez



Mr. Chodagam Srinivas, AMIE

Assistant Professor, SASI Institute of Technology & Engineering, Tadepalligudem

Title of Paper: ‘External Archive based Adaptive Differential Evaluation for Solution of Economic Load Dispatch,’ *International Conference on Intelligent Sustainable Systems*, Palladam, Tamilnadu, February 21-22, 2019.



Prof. Abhijit Mitra, FIE

University Institute of Technology, University of Burdwan, Burdwan, West Bengal



Title of Paper: 'A Selective Bitplane Image Encryption Scheme using Chaotic Maps', *Multimedia Tools and Applications*, Springer, September 2018, pp.1-28
[DOI: <https://doi.org/10.1007/s11042-018-6539-7>]

Co-authors: S Som, S Palit, B B Chaudhuri

Dr. Anal Ranjan Sengupta, AMIE

Assistant Professor, Department of Mechanical Engineering, JIS College of Engineering, Kalyani, West Bengal

Title of Paper: 'Comparison of Low Wind Speed Aerodynamics of Unsymmetrical Blade H-Darrieus Rotors blade Camber and Curvature Signatures for Performance Improvement', *Renewable Energy*, Elsevier, Vol. 139, pp. 1412-1427, 2019.

[https://www.sciencedirect.com/science/article/pii/S0960148119303593?dgcid=rss_sd_all].

Co-authors: A. Biswas, R Gupta



Mr. Prasanna Venkatesan Theerthagiri, AMIE

Research Scholar, Adhiyamaan College of Engineering, Anna University Chennai



Title of Paper : 'FMPM : Futuristic Mobility Prediction Model for Mobile Adhoc Networks using Auto-Regressive Integrated Moving Average', *Acta Graphica*, Vol. 29, No.2, 2018, pp. 7-17.

[https://hrcak.srce.hr/index.php?show=clanak&id_clanak_jezik=314836]

Co-author: T Menakadevi

Mrs. K Nandini, MIE

Assistant Professor, Department of Civil Engineering, Jerusalem College of Engineering, Chennai



Title of Papers:

- 'Utilization of Waste Materials in Brick Manufacturing', *International Research Journal of Engineering and Technology*, Vol.6, No.1, January 2019

[<https://www.academia.edu/38303722/IRJE>

T-Utilisation_of_Waste_Materials_in_Brick_Manufacturing]

Co-author: S Geetha

- 'Performance Evaluation of Activated Sludge Process in Dairy Waste Water Treatment', *International Journal of Engineering Research & Science*, Vol. 5, No. 2, February 2019.

[https://ijoer.com/assets/articles_menuscripts/file/IJOER-FEB-2019-1.pdf]

Co-author: V Lavanya

Mr Anil Kumar Mandariya, AMIE

Research Scholar, IIT Kanpur, Kanpur, Uttar Pradesh



Title of Paper: 'Effect of Aqueous-phase Processing on the Formation and Evolution of Organic Aerosol under Different Stages of Fog Life Cycles', *Atmospheric Environment*, Elsevier, Vol.206, 2019, pp.60-71.

[DOI: 10.1016/j.atmosenv.2019.02.047]

Co-authors: Tarun Gupta, S N Tripathi

Mr. Basavaraj Patil, AMIE

Assistant Professor, SDM Institute of Technology, Ujire, Karnataka

Title of Paper: 'Enhanced Authentication Mechanism in Wireless Multimedia Sensor Network using ECCDH', *International Journal of Advanced Studies of Scientific Research*, Vol. 3, Issue 12, 2018.

Co-author: S R Biradar



Mr. Dhirendra Patel, MIE

Senior Lecturer, Department of Civil Engineering, Kala Niketan Polytechnic College, Jabalpur, Madhya Pradesh



Title of Paper: 'Effective Utilization of Waste Glass Powder as the Substitution of Cement in Making Paste and Mortar', *Construction and Building Materials*, Vol. 199, 2019, pp.406–415.

[<https://www.sciencedirect.com/science/article/abs/pii/S0950061818329970>]

Mr. Ajinkya A Mohite, AMIE

Research Scholar, Department of Mechanical Engineering, Dr JJ Magdum College of Engineering, Kolhapur, Maharashtra

Title of Paper: 'Experimental and Numerical Noise and Vibration Analysis of Flour Mill Foundation', *International Research Journal of Engineering and Technology*, Vol.6, No. 2, February 2019.

[<https://www.irjet.net/archives/V6/i2/IRJET-V6I2190.pdf>]

Co-authors: SH Sawant, Amit A Hingane

**Prof. S Baskar, AMIE**

Department of Electrical & Electronics Engineering, VelTech Rangarajan Dr Sagunthala R&D Institute of Science and Technology, Avadi, Chennai

Title of Papers:

- 'Design and Analysis of a Novel PWM Inverter', *Journal of Advance Research in Dynamical and Control Systems*, Vol.10, No.8, 2018, pp.1371-1375.

[<http://www.jardcs.org/backissues/abstract.php?archiveid=4432>]

- 'A Potential Solution to Deal with the Privacy Protection for Smart Grid Network Communications - A Research Proposal', *Journal of Advance Research in Dynamical and Control Systems*, Vol. 10, No. 7, 2018, pp.1470-1473.

[<http://www.jardcs.org/backissues/archives-special.php?year=2018&issue=07-Special%20Issue&page=16>]

- 'Reducing PAPR with Optimization Based Spectrum Sensing Using FPGA Configuration', *International Journal of Pure and Applied Mathematics*, Vol. 118, No. 24, 2018, pp.1-12.

[<https://acadpubl.eu/hub/2018-118-24/2/265.pdf>]

**Dr. Shiv Kumar Yadav, AMIE**

Department of Environmental Science and Engineering, IIT-ISM, Dhanbad



Title of Paper: 'Variations in Concentrations of Particulate Matter with Various Sizes In Different Weather Conditions in Mining Zone', *International Journal of Environmental Science and Technology*, March 2019, pp.1-14.

[DOI: 10.1007/s13762-019-02313-7]

Co-author: MK Jain

Mr. H K Vijaykumar, MIE

Assistant Professor, Department of Mechanical Engineering, A J Institute of Engineering and Technology, Mangaluru, Karnataka

Title of Paper : 'Optimization of Process Parameters in Surface Grinding for AISI 410 by Taguchi Technique', *Proceedings of American Institute of Physics Conference*, March 2019, pp.1–6.

[<https://doi.org/10.1063/1.5092929>]

Co-author: Rajesh Rai P



Activities by Institutional Members

**All India Level Workshop on
'Basics in Computational Fluid Dynamics'
to be organized at
Mepco Schlenk Engineering College
Sivakasi, Tamilnadu
May 28 - June 01, 2019
☎ 09786839186; ✉ rsaravana@mepcoeng.ac.in**

**National Workshop on
'Tribology of Green Composites (TGC-2020)'
to be organized at
K Ramakrishnan College of Engineering
Tiruchirapalli, Tamilnadu
July 04-05, 2019
☎ 09842927212; ✉ mechanand2003@gmail.com**

**National Workshop on
'Hands on Experience in Welding Technology'
to be organized at
Aditya College of Engineering & Technology
East Godavari District, Andhra Pradesh
July 12-13, 2019
☎ 9177314748; ✉ iei_coordinator@acet.ac.in**

**National Conference on
'Advances in Electrical Technology for Green Energy'
to be organized at
Christian College of Engineering & Technology
Bhilai, Chhattisgarh
July 12-13, 2019
☎ 9437146538; ✉ ritesh89pm@gmail.com**

Activities by Institutional Members

Two Day National Level Workshop on 'Solar and Smart Energy System for Sustainable Environment'

to be organized at

Selvam College of Technology

Namakkal, Tamilnadu

July 25-26, 2019

☎ 9750939938; ✉ deanacademic@selvamtech.edu.in

National Seminar on 'Engineering Analysis with ANSYS Workbench (EAAW-2019)'

to be organized at

Swami Vivekananda School of Engineering & Technology

Bhubaneswar, Odisha

July 28-29, 2019

☎ 9439195483; ✉ croutray2017@gmail.com

Two Day National Conference on 'Application of Electronics and Instrumentation in Betterment of Human Health Care'

to be organized at

Hindustan Institute of Technology

Coimbatore, Tamilnadu

August 02-03, 2019

☎ 9629183233; ✉ luckshanthpaul@gmail.com

Activities by Institutional Members

**International Conference on
'Biotechnology & Biological Sciences BIOSPECTRUM 2019'**
to be organized at

University of Engineering & Management

Newtown, Kolkata, West Bengal

September 08-10, 2019

☎ 8017259210; ✉ dibyajit.lahiri@uem.edu.in

**National Conference on
'Device Modeling and Soft Computing for Real-time Applications'**
to be organized at

Mallabhum Institute of Technology

Bishnupur, West Bengal

September 13-14, 2019

☎ 9433782630; ✉ abhattacharya@mitbishnupur.ac.in

**National Conference on
'VLSI, Communication & Computer Networks'**
to be organized at

A M C College of Engineering

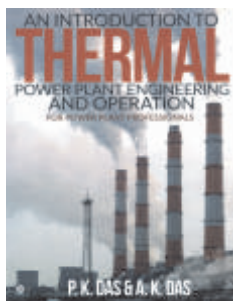
Bangalore, Karnataka

October 17-18, 2019

☎ 9884591122; ✉ drtkavitharaj@gmail.com

An Introduction to Thermal Power Plant Engineering and Operation

PK Das, FIE and AK Das, FIE



Power Plant is one of the most vital sectors for any country or industry. In the modern days nothing will move without electric power, be it an industry, office, domestic or even for charging mobile. So such an important sector needs to be operated and maintained very dexterously, efficiently and safely.

Power Sector is a matured sector and the plants are designed meticulously addressing the prior challenges faced. Ultimate automation is gradually being adapted to reduce human error and to minimize loss in efficiency.

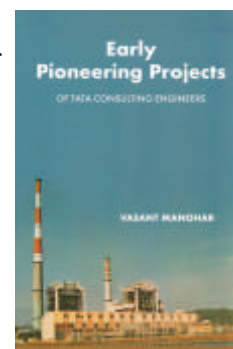
In the present scenario most of the power plant is adopting the higher range of steam pressure and temperature and most of the equipment manufacturers have reduced the operating margin which is also a menace to the operating personnel. Hence changed processes need to be adopted while operating and maintaining the power plant. Coal handling plant, ash handling plant and water treatment plant come under balance of plant in power plant. To have better and detail understanding the stated areas have been segregated and discussed in separate sections. Power plant performance and efficiency has been elaborated along with energy conservation, different techniques, etc have been separately captured. Collation of several what's, when's and why's in this write up. Some touch on design aspects of power plant is also captured. It is sure that this document will quench the operator's day to day queries. It is to be noted that total discussion is limited to the captive range of the power plants.

Published by: Notion Press, Chennai 600 031

Early Pioneering Projects of TATA Consulting Engineers

Vasant Manohar, FIE

The book is an attempt to document the experience of Tata Consulting Engineers in undertaking large pioneering projects in its early years, many of them in the decades of 70s and 80s, when computers, mobile phones computerized drafting and other tools that we now take for granted were not available, and even getting a photo copy was not easy. It covers many firsts – the 500 MW thermal power project at Trombay, the 400 kv extra high voltage system in Maharashtra, the pumped storage project at Bhira, the Ooty Radio Telescope, as well as overseas projects in Iran, Iraq, Laos and Malawi, and many others. This book has many aspects of the project that have to be taken into account, apart from the detailed design of the project itself. Many incidents that occurred during work on overseas projects are quite interesting and highlight the really difficult conditions under which TCE engineers had to work abroad and at times with a concern for personal safety. The book also in an indicator of the rapid change in technology that has occurred over the years which requires continuous upgrading of the capability of the organisation.

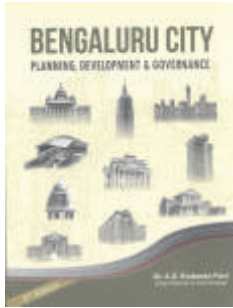


Published by: Vakils, Feffer and Simons Pvt. Ltd, Mumbai 400 025



Bengaluru City Planning, Development and Governance

AS Kodanda Pani, FIE



This is a book to know about all aspects of planning and development of Bengaluru City, which is one of the fastest growing cities in the World according to a United Nations Report during July 2014. The urban issues mentioned in the book is based on my experience as Chief Town Planner of Bengaluru City Corporation and Bengaluru Development Authority, and later as an Urban Planning Consultant and civic analyst.

Civic problems are increasing in Bengaluru, the only prime city in Karnataka, due to rapid increase in population with increasing economic activities including Information Technology sector, multi-national company activities, higher education, multi-speciality health centers, modern shopping malls, better climatic conditions, etc. The urban infrastructure is very much inadequate and civic problems have increased affecting living and working of citizens.

The book will be useful to the urban planners, architects, civil engineers, officials of civic agencies, traffic police, corporators, builders, developers, residents welfare associations, legislators of urban constituencies, administrators, and advocates dealing with civic problems.

Published by: AddContact Publishers, Bengaluru 560 005

Guide to Civil Engineering and Architecture Students on Urban Planning & Development

AS Kodanda Pani, FIE

Civil Engineering students after their graduation take up appointment as Civil Engineers in public service or private service. Some of them continue education for post graduation in specific fields of civil engineering like; structural engineering, water supply and sanitary engineering, town planning, etc. Only academic education will not help them to be successful civil engineers. They require the knowledge of town and country planning, civic affairs, governance, etc. Civil engineers are involved in construction of buildings, roads, irrigation, water supply and sanitary services, etc. A major activity in large cities is the construction of apartments, commercial complexes, buildings for public purposes, etc. For this purpose they are required to know about urban planning, zoning regulations, building bye-laws, civic procedure, civic issues etc. to be able to justify their actions. In this book, an attempt is made to guide them on the legal provisions for urban planning and development, their role in performance as civil engineers of local bodies, or in the private sector with the developers and builders. Students from all over Karnataka, other states, and other countries are studying in the engineering colleges of Karnataka. Details/reference mentioned in this book are mainly pertaining to Bangalore, the Capital and the largest city in Karnataka. As planning efforts in all large cities in India are similar, the students will be able to understand the background mentioned in this book to adopt similar efforts in the other cities.



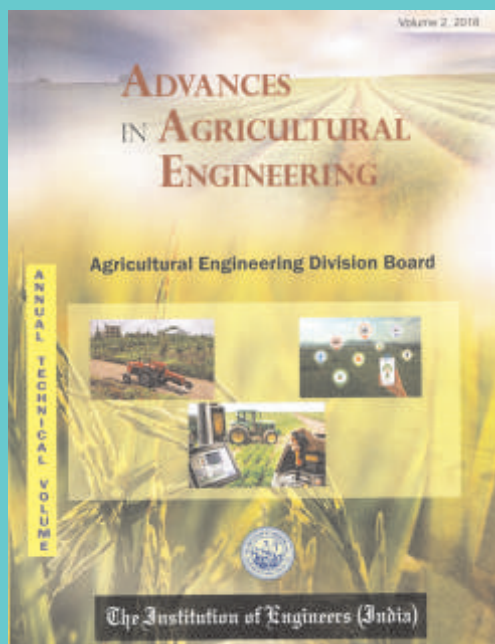
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[<https://www.ieindia.org/webui/IEI-Publication.aspx#annual-technical-volume>]

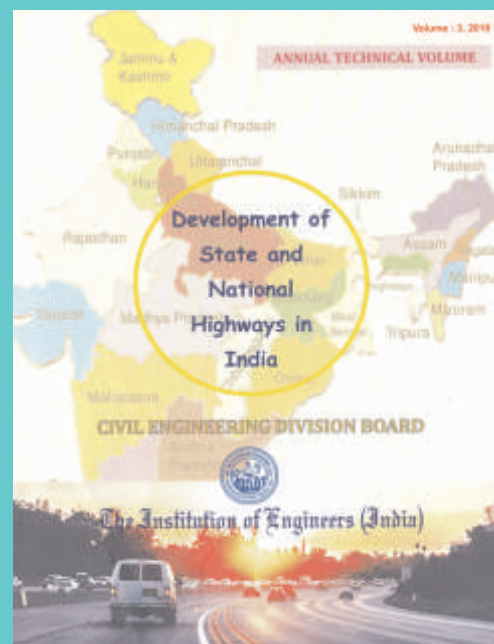
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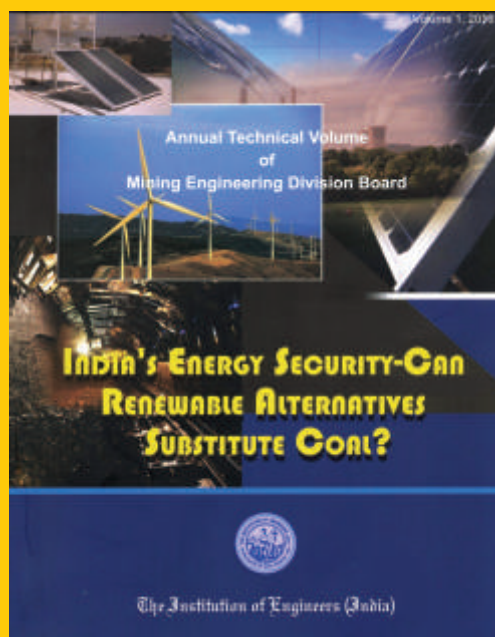
Civil Engineering Division Board



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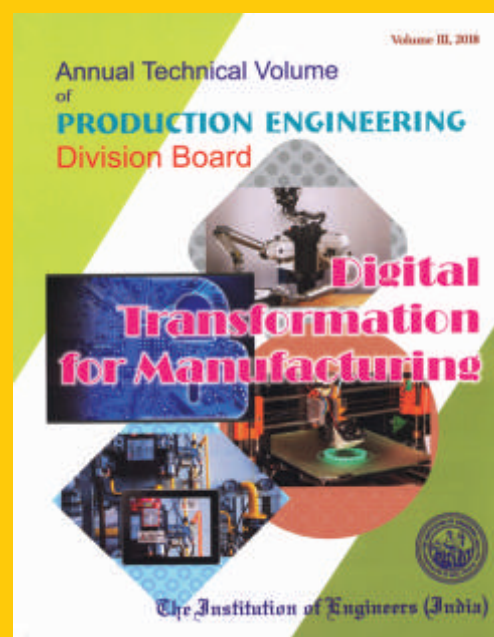
Mining Engineering Division Board



Theme : India's Energy Security– Can Renewable Alternatives Substitute Coal?

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Production Engineering Division Board



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