

# IEI Epitome

Volume 8 | Issue 1 | January 2023

*A Century of Service to the Nation*

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# Notification for R&D Grant-in-Aid

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To promote appropriate technology, assist in building up design & research talents and, most importantly, to help in nurturing potential R&D venture amongst engineering students pursuing Diploma/UG/PG/PhD courses. The Institution of Engineers (India) had instituted the R&D Grant-in-Aid program way back in 2001.

Every year, the Institution invites applications for funding industry-oriented R&D projects and research initiatives aimed at improving the life-style of common people from engineering students pursuing full time Diploma/UG/PG/PhD engineering program in AICTE/UGC/NAAC approved Institutions / Colleges / Universities. The application form and guidelines are available in our website <https://www.ieindia.org>. The projects should be carried out under the guidance of faculty members who are Corporate Members of IEI. Membership criteria for student(s), guide(s) and Institution(s) are as follows:

Project Category	Student/Applicant Membership	Guide(s) Membership	Institutional Membership
1. Diploma	Exempted [Membership of Student Chapter is desirable]	AMIE/MIE/FIE	Not Mandatory
2. UG (BE/BTech/Equivalent)	'Student Member' (SMIE)	AMIE/MIE/FIE	Applicant's Institute should preferably be an Institutional Member with NBA /NAAC Accreditation or valid NIRF Rank
3. PG (ME/MTech/Equivalent)	AMIE/MIE/FIE	MIE/FIE	Applicant's Institute should preferably be an Institutional Member with NBA /NAAC Accreditation or valid NIRF Rank
4. PhD	AMIE/MIE/FIE	MIE/FIE	Applicant's Institute should preferably be an Institutional Member with NBA /NAAC Accreditation or valid NIRF Rank

The soft copy of the duly filled-up applications (in editable format), as per the pro-forma available in our website [www.ieindia.org](http://www.ieindia.org), should be sent through email to [research@ieindia.org](mailto:research@ieindia.org) and one printed copy of the same should reach the following address:

**Director (Technical)**  
The Institution of Engineers (India)  
8 Gokhale Road, Kolkata 700 020

Kindly go through the guidelines (visit link <https://www.ieindia.org/webui/IEI-Activities.aspx#RnD-Initiative>) before filling up the application.



# Notification for IEI Young Engineers Award

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The Institution of Engineers (India) is a multi-disciplinary professional body of engineers with 15 engineering disciplines and over 9,00,000 members in India and abroad. The Institution was established in 1920 and was incorporated by Royal Charter in 1935. It has been in the forefront of engineering profession addressing the socio engineering problems for progress of the country. IEI functions among professional engineers, academicians, research workers to update their professional knowledge through continuous professional development. With its large international linkages and a network of 125 Centres in India and Six Overseas Chapters, the Institution has built up wide reach and large infrastructure to meet its objectives of promoting engineering in all aspects.

With a view to promote the pursuit of excellence in the field of engineering, IEI has instituted '**IEI Young Engineers Award**'. The Award consists of a Plaque and a Certificate. The purpose of the Award is to recognize outstanding achievements /contributions made by young engineers in engineering research, excellence in engineering technology development, technology transfer, etc. Any engineer citizen of India not older than 35 years of age as on March 31, 2023 is eligible for the Award. The IEI Young Engineers Award is presented to awardees for all the 15 Engineering Divisions of the IEI during the respective National Conventions. The awardees attending the National Convention will be provided with free accommodation & their traveling expenses (AC-3 Tier train fare by shortest route) will be reimbursed on production of original documents.

The Application Proforma may be downloaded from IEI website (<https://www.ieindia.org>). Soft copy of the filled-in application proforma should be forwarded to [award@ieindia.org](mailto:award@ieindia.org) by **March 31, 2023**. Further, six copies of the duly filled application form, along with all supporting documents, endorsed by appropriate authority should be sent to the below mentioned address so as to reach us latest by **April 10, 2023**:

**Director (Technical)**  
The Institution of Engineers (India)  
8 Gokhale Road, Kolkata 700020

The envelope containing the application should be superscribed at the top as '**IEI Young Engineers Award 2023-24**' and name of the engineering division under which the applicant desires to be considered for the Award.

# Call for Papers for Technorama

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## NOTIFICATION

It is our great pleasure to inform you that the Council of The Institution of Engineers (India) decided to resume the publication of the theme based **e-Technical Magazine 'Technorama'** in lieu of Annual Technical Volume being published earlier.

As decided, three issues of the '**Technorama**' will be published in a calendar year as per details given below:

- (1) First Trimester Issue (Coverage: **Agriculture, Architecture, Chemical, Civil, Environment and Textile Engineering**)
- (2) Second Trimester Issue (Coverage: **Aerospace, Marine, Mechanical, Metallurgical & Materials, Mining Engineering and Production**)
- (3) Third Trimester Issue (Coverage: **Electrical, Electronics & Telecommunication Engineering and Computer Engineering**)

You are requested to submit paper on any one of the topics which are given in the table below:

Schedule of TECHNORAMA	Division	Themes approved for forthcoming issue	
First Trimester Issue (April of every year)	Agricultural	Integrated Post Harvest Management and Supply Chain	for April 2023 issue
	Architectural	Intelligent Buildings: Design and Technology	
	Chemical	To be intimated	
	Civil	Rapid Transport System	
	Environmental	Emerging Energy Scenario for Sustainable Development	
Second Trimester Issue (August of every year)	Textile	Development and Application of Functional Textiles	for August 2023 issue
	Aerospace	To be intimated	
	Marine	Advancements in Ship Building Technology - Way Ahead towards New Normal	
	Mechanical	Applications of Artificial Intelligence and Machine Learning in Mechanical Engineering - The Post Pandemic Pathway	
	Metallurgical & Materials	Integrated Computational Materials Engineering (ICME)	
Mining	1.Coal Bed Methane and Non-conventional Fuel Gases		
	2.Future of Mining		
Third Trimester Issue (December of every year)	Computer	Technology Convergence over 5G Network	for December 2023 issue
Electrical	Energy Conservation		
Electronics &	Recent Trends in Antenna Technology for		
Telecommunication	Modern Wireless Communication System		

We welcome you to submit the soft copy of Original Papers/Case Studies/Articles of Professional interest in MS Word format on the mentioned topic at **technorama@ieindia.org** for possible publication in the **Technorama**. For Template of Paper and Copyright Declaration form please visit the following link:

[https://www.ieindia.org/webui/IEI-Activities.aspx#Call\\_Papers](https://www.ieindia.org/webui/IEI-Activities.aspx#Call_Papers)

Kindly mention the detailed affiliation of the authors along with e-mail id and phone number in the **Declaration Form** for further needful action.

You are also required to submit the "**PLAGIARISM CHECK REPORT**" of the paper submitted by you along with the paper.

In the subject clearly mention the topic under which the paper is being submitted.

We look forward to your contribution.

# Members in the News

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## Mr Varun Srivastava, AMIE

Senior Manager-Tech  
Intech Dosimeters Pvt Limited, New Delhi  
[varungsit@gmail.com](mailto:varungsit@gmail.com)

Mr Varun Srivastava has been conferred the Degree of **Doctor of Philosophy** in the field of Electronics Engineering for the thesis entitled '**Performance Analysis of FSO Systems with Wavelength Diversity under Turbulent Atmospheric Conditions**' from **Sardar Vallabhbhai National Institute of Technology**, Surat on 05 December 2022 .

## Mr Devjit Acharjee, AMIE

PhD Scholar  
Department of Construction Engineering, Jadavpur University, Kolkata  
[devjitacharjee1996@gmail.com](mailto:devjitacharjee1996@gmail.com)



He received prestigious **International Best Researcher Award** for the Research & Excellence in "**Structural Health Monitoring**" in the Royal Research Award Ceremony, "**ISSN International Science & Technology Awards and Congress (IISTAC-2022)**" on 03 November 2022 at Hotel Breeze Residency, India.

## Be proud to be an IEI Certified Professional Engineers (PE) and International Professional Engineers (IntPE)

### Professional Engineers (PE) Certification by IEI

#### ELIGIBILITY REQUIREMENT

- BE/ BTech or equivalent recognised by Statutory Authority or Government of India
- Five years or more professional experiences
- Membership of recognised professional engineering institution/ association
- Maintained Continued Professional Development (CPD) at a satisfactory level

For details pls visit the following link :

[https://www.ieindia.org/webui/IEI\\_PE\\_Certification.aspx](https://www.ieindia.org/webui/IEI_PE_Certification.aspx)

### International Professional Engineers (IntPE) Certification by IEI

#### ELIGIBILITY REQUIREMENT

- BE/ BTech or equivalent recognised by Statutory Authority or Government of India
- Seven years or more professional experiences
- Minimum two years professional experience in significant engineering activity
- Membership of recognised professional engineering institution/ association
- Maintained Continued Professional Development (CPD) at a satisfactory level

For details please visit the following link :

[https://www.ieindia.org/webui/IEI\\_IntPE\\_Certification.aspx](https://www.ieindia.org/webui/IEI_IntPE_Certification.aspx)

The eligible candidate can submit application in the prescribed format to: **The PE Cell, The Institution of Engineers (India), 8 Gokhale Road, Kolkata 700020**  
For any query and assistance, please send email to: [pe@ieindia.org](mailto:pe@ieindia.org)



## Books



### Dr Gautam Kumar Bysack, FIE

Head

M/S R C Bysack Group of Companies, Kolkata

[gautambysack@yahoo.com](mailto:gautambysack@yahoo.com); [msrcbysack@gmail.com](mailto:msrcbysack@gmail.com)

### Sir R N Mookerjee

*a life history and work achievement*

Co-author: **Pronoy Roy Chowdhury**

It is to inform with great pleasure that a book on "**Sir R N Mookerjee**", the famous Industrialist, of colonial Bengal was published on 23rd June, 2022 on his 169th Birthday at a solemn occasion at the hall of Rotary Sadan Calcutta. Sir Rajendra Nath Mookerjee, KCIE, KCV0 was one of the partner of Martin & Co. and later Martin & Burn who were responsible for construction of many elegant structures in colonial Bengal and surrounding areas.

Rajendra Nath was born on 23rd June, 1854 at a small village called 'Bhabla' near Bashirhat which is at present located in North 24 Parganas. Throughout his life he was a very much disciplined individual he developed a large business empire from very humble beginning as a petty contractor of Palta Water Works of Calcutta Municipal Corporation.

The greater business venture of Sir R N Mookerjee was in the establishment of Martin light railways in Howrah & Hooghly district and from Barasat to Basirhat line. He developed his business with another Englishman Sir Thomas Acquin Martin. Together they also developed the Indian Iron & Steel Company near Kulti, Asansol.

Martin & Co. was responsible for many Building construction such as Esplanade Mansion, Mysore Memorial at Kalighat, Hongkong Shanghai 'Bank Building, Standard Chartered Bank Building at BBD Bag, the Assembly House of Bengal, Calcutta Club, the Victoria Memorial Calcutta, and also the Ramakrishna Temple

at Belurmath only to name a few. He was also the Chairman of the Technical Committee for the Howrah Bridge and a member of Indian Industrial Commission and also the inaugural President of the Institution of Engineers (India) and was associated with many other organizations in his life time,

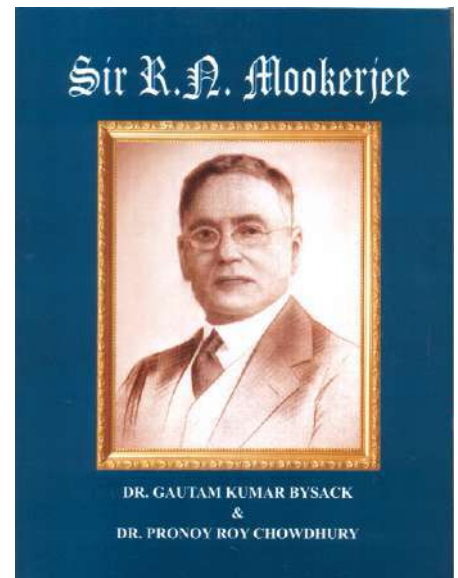
The book written by myself and Dr Pronoy Roy Chowdhury highlights the significant contribution and important events of the life of the great individual Sir R N Mookerjee. The book is based on historical documents such as the London Gazette, the Calcutta Gazette, Proceedings of the Indian Industrial Commission, Proceedings of the Institution of Engineers (India), Speeches of erstwhile Governors of Bengal, Calcutta University Archive, Proceedings of Institution of Mechanical Engineers, UK, Prabudha Bharat Magazine of Ramakrishna Mission and varioris Newspapers cuttings of old Newspapers.

**ISBN** : 978-81-957547-0-0

**Copy Right Year** : June 2022

**Publisher** : Poets Foundation, Kolkata

**Price** : Rs. 999



# Publication by Members

Volume 8 | Issue 1 | January 2023



## Dr Senthilkumar R, AMIE

Assistant Professor

Government College of Engineering Erode, Tamil Nadu

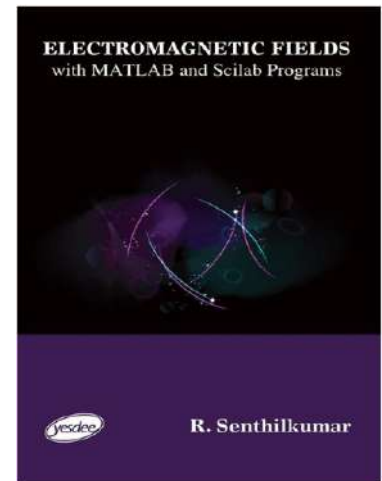
[rsenthil\\_1976@yahoo.com](mailto:rsenthil_1976@yahoo.com)

## Electromagnetic Fields with MATLAB and Scilab Programs

Electromagnetic Fields with MATLAB and Scilab programs is designed for a one semester undergraduate course for students of Electrical and Electronics Engineering, and Electronics and Communication Engineering.

A key feature of this book is the extensive use of Matlab and Scilab based examples that illustrates the programs' powerful capability to solve electromagnetic field problems. The reader can run these programs to verify the results. Matlab programs are written in such a manner that it can run in any Matlab version. There are 25 open source Scilab programs altogether in the text that have been tested under Scilab software version 5.2 or more. Another attractive feature of this book is the inclusion of more than 100 solved problems and 80 two mark questions.

<b>ISBN Print Book</b>	: 9789391549978
<b>Copy Right Year</b>	: 2022
<b>Publisher</b>	: Yes Dee Publishing, Chennai
<b>Price</b>	: Rs.295

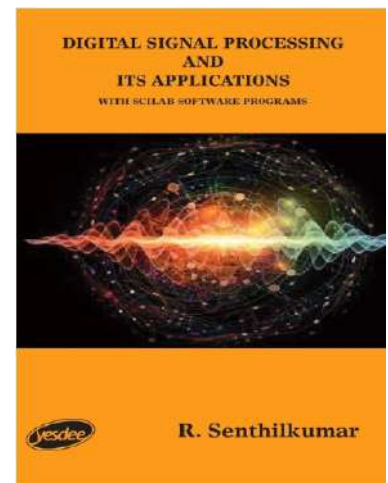


## Digital Signal Processing and Its Applications with Scilab Software Programs

Digital Signal Processing and Its Applications with Scilab software programs introduces the tools used in the analysis and design of discrete time systems for signal processing. It is intended for undergraduate program on Digital Signal Processing theory and Lab. Key Features:

- Scilab based examples are used throughout the text. The text includes over 80 Scilab programs and more than 100 programs are included in the website.
- The text contains numerous "real-life" signal processing problems. The last three chapters are dedicated to important applications of DSP such as speech processing, digital image processing and biomedical signal processing.
- Comprehensive coverage of several key topics, including digital filter design, digital filter structures, analysis of finite word-length effects, and multirate digital signal processing.
- This text is also useful for a computer-based Digital Signal Processing (DSP) Laboratory course using Scilab software.

<b>ISBN</b>	: 9788195268726
<b>Copy Right Year</b>	: 2022
<b>Publisher</b>	: Yes Dee Publishing, Chennai
<b>Price</b>	: Rs. 695



# Publication by Members

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## Papers published in the Journals / Proceedings



**Dr Raj Kumar Goswami, FIE**

Principal

Gayatri Vidya Parishad College of Engineering for Women, Visakhapatnam, Andhra Pradesh

[rajcumargoswami@gmail.com](mailto:rajcumargoswami@gmail.com)

### Title of Paper: Radar Cross Section Estimation for a Complex Shaped Objects using SPSG and PO Methods

Electronics and Telecommunication Engineering Section, 36th Indian Engineering Congress, Centenary Celebration, New Delhi, 2021

**Co-authors:** Swathi Nambari, Gottapu Sasi Bhushana Rao & Kolluri Sri Ranga Rao

**DOI:** [https://doi.org/10.36375/prepare\\_u.iei.a179](https://doi.org/10.36375/prepare_u.iei.a179)

**Abstract:** Radar plays a crucial role in the present war scenario and defence applications. RCS is an important parameter that defines the target cross sectional area. The higher the RCS value, the greater the target detection capability of the Radar. RCS estimation mainly depends on the size, geometry, orientation of the object towards the Radar, and also the material of which the object is made. Among these, the size, geometry, and orientation of the object are considered to be the most significant features in RCS estimation process. RCS determination is an important task for identifying or classifying the objects as either friend or foe. Accurate estimation of Radar Cross Section (RCS) at high frequencies and reduction of radar perceivability at different frequencies is a challenging task. An efficient algorithm is required that can run on a standard PC which provides RCS predictions within a short time. In this paper, Spherical Polar Scattering Geometry (SPSG) and Physical Optics (PO) based algorithms are proposed to estimate RCS of complex structured objects.

**Keywords:** Radar Cross Section (RCS); Spherical Polar Scattering Geometry (SPSG); Physical Optics (PO); Frequency; Dimension; Wavelength



## IEI-Springer Journal



ISSN Print 2250-2149  
ISSN Electronic 2250-2157

### Series A

CiteScore 2021

1.6

Google Scholar h5 Index 2021

16



ISSN Print 2250-2106  
ISSN Electronic 2250-2114

### Series B

CiteScore 2021

1.6

Google Scholar h5 Index 2021

17



ISSN Print 2250-0545  
ISSN Electronic 2250-0553

### Series C

CiteScore 2021

2.3

Google Scholar h5 Index 2021

20



ISSN Print 2250-2122  
ISSN Electronic 2250-2130

### Series D

CiteScore 2021

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Google Scholar h5 Index 2021

13



ISSN Print 2250-2483  
ISSN Electronic 2250-2491

### Series E

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1.3

Google Scholar h5 Index 2021

11



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# Publication by Members

Volume 8 | Issue 1 | January 2023



**Dr Johnpaul V, AMIE**

Assistant Professor

Department of Civil Engineering, Karpagam Academy of Higher Education, Eachanari, Tamil Nadu

[johnpaulv2490@gmail.com](mailto:johnpaulv2490@gmail.com)

## Title of Paper: Enhancing the Durability and Morphology Characteristic of Concrete using Nano-Based GGBFS

Iranian Journal of Science and Technology, Transactions of Civil Engineering, 46(6), 2022, ISSN: 2228-6160

**Co-authors:** K Santhiya & N Balasundaram

**DOI:** <https://doi.org/10.1007/s40996-022-00997-5>

**Abstract:** The significant challenges in the construction industry, such as resource depletion and carbon dioxide emission, has opened the way for concrete development with immense strength and better durability. Numerous studies were carried out by replacing the basic materials, and various admixtures were introduced into concrete. One such admixture is nano-ground granulated blast furnace slag (NGGBFS), which is known to reinforce the characteristics of concrete and improve its microstructure as evidenced by their exceptional capabilities. The current research focuses on using GGBFS as a nano-based substitute material to extend the life of buildings by mixing in various proportions of 2, 4, 6, 8, 10, and 12% to the weight of cement. A durability test was performed to assess the permeability, acid resistance, and water absorption capacity of NGGBFS. When compared to the control mix, the 8% NGGBFS was determined to have good durability properties with 33.88% increase in compressive strength and 30% reduction in chloride ion penetration. Then, FESEM and EDAX analysis were performed to understand the concrete microstructure. NGGBFS accelerates CSH gel formation at the early stage of hydration by facilitating resistance to water permeability, and increase in the concrete strength was observed in FESEM analysis. As a result, considerable improvements in concrete qualities were observed, demonstrating that the incorporation of nanoparticles may significantly improve properties by substituting industrial waste by-products.

**Keywords:** Durability; EDAX; FESEM Analysis; GGBFS; Hydration; Microstructure; Nanoparticle



## Project Management Associates Weekend Programme



### International Project Management Association

IPMA is a federation of about 72 Member Associations (MAs) who develop project management competences in their geographic areas of influence. Through IPMA, project management practitioners from all parts of the world can network, share ideas through effective collaboration and cooperation.

#### Who / Why to Attend

Professionals across all levels who want to understand the intricacies of Project Management and want to excel in managing projects to advance their career.

#### Discounted Program Registration Fee for IEI Members (15% discount from the published fee)

Participation Fee for Level C: Rs. 47,090 per person plus GST @ 18%

Participation Fee for Level D: Rs. 24,650/- per person plus GST @ 18%

- Registration fee is non refundable. However, alternate persons can be nominated.
- Cheque / draft or NEFT is payable to "Project Management Associates" at Delhi.
- The registration fee does not include travel and hotel accommodation.

Next batch of on-line learning sessions on Project Management Competence Building (PMCB) based on ICB Version 4, knowledge base for IPMA Level C and Level D by our Learning partner PMA is from **3, 4, 10 & 11 February 2023**. The relevant material is available in the link <https://www.pma-india.org/brochures>.

**Exam Dates for Level C: 18, 24 & 25 February 2023**

**Exam Dates for Level D: 18 February 2023**

**Exam Venue: Secure and Seamless Online Exam & Assessment**

#### For more details, please contact:

Arvind Agarwal, Head, PMA Cert (Certification Body)

Project Management Associates

FC-33, Plot No. 1 & 2, Periyar Centre, 3rd Floor, Institutional Area, Jasola, New Delhi – 110025

Tel: 011 41421511 Mob: +91 9711631534-35/39, 9840432229, Website: [www.pma-india.org](http://www.pma-india.org), Email: [info@pma-india.org](mailto:info@pma-india.org)



**Mr Vinay Anand**, AMIE  
PhD Research Scholar  
Lovely Professional University, Jalandhar, Punjab  
[vinayanand77@gmail.com](mailto:vinayanand77@gmail.com)

**Title of Paper: Techno-analytical Investigation of Induction Motor-Driven Solar Car**

Journal of Optoelectronics Laser, 41(10), 2022, pp 615-629, ISSN: 1005-0086

**Co-authors:** Himanshu Sharma & Bhagwan Shree Ram

**URL:** <http://gbzjg.org/index.php/JOL/pdf/VinayAnand.pdf>

**Abstract:** Due to their limited driving range and aging batteries, electric vehicles are superior alternatives to vehicles powered by internal combustion engines and are more popular in India. However, they are still out of reach for many consumers. Therefore, researchers are working to remove obstacles and develop electric automobiles. The author looks into the issue and analyses several pertinent research publications for electric vehicles powered by induction motors that are powered by PV solar panels on rooftops. The literature elaborated that using PV solar cells to charge the internal battery lengthens its lifespan and gives electric vehicles their strong and long-lasting nature. The limitations of grid-connected charging stations may be solved by solar-powered freestanding charging. And this study will undoubtedly contribute to the growth of the market for standalone solar electric vehicles.

**Keywords:** Photovoltaic; Charging Station; Solar; Electric Vehicle; Renewable Energy; Induction Motor



**Mr Devjit Acharjee**, AMIE  
Assistant Engineer  
Public Health Engineering Directorate, Government of West Bengal  
[devjitacharjee1996@gmail.com](mailto:devjitacharjee1996@gmail.com)

**Title of Paper: Stability Assessment of Tilted G+4 RCC Buildings Located at Different Seismic Zones: A Parametric Study**

AIP Conference Proceedings, 2426(1), 2022, ISSN: 0094-243X, E-ISSN: 1551-7616

**Co-authors:** Dibya Jyoti Basu, Dhruva Sing & Debasish Bandyopadhyay

**DOI:** <https://doi.org/10.1063/5.0111644>

**Abstract:** Tilt of G+4 RCC buildings with isolated foundation systems due to differential settlement is one of the common problems, which affects the overall structural stability of the real life buildings. Tilt may be caused due to excavation of adjacent plots of the building without adequate lateral support, poor workmanship, overloading on cantilevered portions above first floor level, improper design and construction etc. The overall stability of the tilted RCC buildings mainly depend on the type & amount of tilt along with the building configuration. NDT results of concrete members are nowadays practiced extensively in real life situation to evaluate the strength and quality; which are sparse to assess the stability of the structures as these are of qualitative and piecewise manner. Additionally, the seismic force; which depends on the seismic zone of the building site, adversely affects the building stability. Thus, the parametric study on the stability of various buildings subjected to different type & extent of tilts; situated on different seismic zones seems to be significantly important. This present paper aims to assess the stability of various G+4 RCC buildings of same plan area & height, with different number of bays in their structural system, located at different seismic zones; when subjected to different extent of uniaxial and biaxial tilts. Different G+4 RCC buildings with different structural configurations and located at different seismic zones; subjected to different types & amount of tilt are duly considered in the finite element framework of SAP2000 for the parametric numerical analyses. Along with type & extent of tilt, it is found that building configuration and zone of seismicity significantly affects the overall stability of these multistoried tilted buildings. The present study may have a great scope for safety assessment and upgradation of real life medium high RCC building structures subjected to tilt.

**Keywords:** Configuration; Finite Element Framework; Tilt; Seismic Zone; Stability

We would like to thank our erudite members for sharing their professional achievements through the IEI Epitome and making the content more abounding and at the same time inspiring many others to share their accomplishments as well. To streamline the process and make it convenient for the member to give their inputs we would like to obtain the information in a more structured and comprehensive manner. We would request our members to send the details of their achievements as per the appended formats only.

## FORMAT FOR ACHIEVEMENT BY MEMBERS

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(i) Prefix (Er/Dr/Prof)	
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(iii) Middle Name (if any)	
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(vi) Designation	
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(ix) Details of Award/Achievement#	
(x) Month & Year of Achievement/ Date of Achievement	
(xi) Supporting Documents/links [which are clearly indicative of the incumbent's achievement(s)]	

*# Reporting of Award of stipend/fellowship at PG/PhD level and awards from esoteric events/communities may be avoided.*



## FORMAT FOR PATENT / DESIGNS / TRADE MARKS / GEOGRAPHICAL INDICATIONS BY MEMBERS

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(x) Issuing Authority	
(xi) Serial No	
(xii) Patent No	
(xiii) Date of filing (DD/MM/YYYY)	
(xiv) Date of Grant (DD/MM/YYYY)*	
(xv) Patentee	
(xvi) Details of Patent	
(xvii) Term for which the above (ix) has been granted	
* Copy of Certificate of the Grant of Patent	

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(vii) Organization of affiliation	
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(x) Name of Journal/Proceeding/Technical Volume	
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(xii) Issue No (Not required for Indian Engineering Congress/Annual Technical Volumes of IEI)	
(xiii) Theme (Only for Technical Volumes of IEI)	
(xiv) DOI: (Not required for Indian Engineering Congress/Annual Technical Volumes of IEI)	
(xv) ISSN	
(xvi) Date of Publication (Date-Month-Year)	
(xvii) Co-authors (if any)	
(xviii) Abstract in full	
(xix) 5/6 Keywords	
(xx) Supporting Documents/links [which are clearly indicative of the incumbent's achievement(s)]	

*# Publications in local seminar, conference and symposia will not be accounted*

## FORMAT FOR PUBLICATION(S) BY MEMBERS — BOOKS/ BOOK CHAPTERS

A passport size  
color photograph  
(scanned image)

(i) Prefix (Er/Dr/Prof)	
(ii) First Name	
(iii) Middle Name (if any)	
(iv) Surname (Last Name)	
(v) Email and Mobile Number	
(vi) Designation	
(vii) Organization of affiliation	
(viii) Membership No (please use the prefix F/M/AM as the case may be)	
(ix) Title of Book	
(x) Title of Book Chapter	
(xi) Book Chapter Number	
(xii) Publisher Details	
(xiii) ISBN	
(xiv) Date of Publication (Date-Month-Year)	
(xv) Co-authors (if any)	
(xvi) About the book (100-150 words)	
(xvii) Supporting Documents (complimentary copies for IEI Headquarters)/links [which are clearly indicative of the incumbent's achievement(s)]	

*\* Accommodate works published in journals/reputed conference proceedings/books for the last one year*



# Notification for Advertisement in IEI Epitome

Volume 8 | Issue 1 | January 2023

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### CONTINUING PROFESSIONAL DEVELOPMENT PROGRAMMES (CPDP) FOR THE MONTH OF FEBRUARY 2023

Sl. No.	Name of the Course	Scheduled Dates
1.	Advanced in Project management	01 – 03 Feb
2.	Request for Proposal (RFP) for a IT Contract Management System	01 – 03 Feb
3.	Concurrent Engineering - Role of Designer in Product Development	06 – 08 Feb
4.	Enhancing Managerial Excellence for Scientists, Engineers, Managers & Executives	06 – 08 Feb
5.	Advance Excel for Report Generation & Analytics	06 – 10 Feb
6.	Six Sigma Green Belt	06 – 10 Feb
7.	Hydraulic Gates and Hoists – Design, Erection and Operation & Maintenance including Dismantling	06 – 10 Feb
8.	Online Monitoring Industrial Emission Effluent (Technical Guidelines and Demonstration).	07 – 09 Feb
9.	CEA Regulations 2010 - Measures relating to Safety, Electric Supply Associated Maintenance and Safety Practices	07 – 10 Feb
10.	Instrumentation for Monitoring in Mining- Mine Environment, Ventilation, Strata, Slope Stability, Blasting	08 – 10 Feb
11.	Pilferage of Electricity - Detection & Prevention - Issues & Challenges	13 – 16 Feb
12.	Information Security Policies & Security Audit	13 – 17 Feb
13.	Climate resilient water supply system design for sustainability	15 – 17 Feb
14.	Total Productivity Maintenance	15 – 17 Feb
15.	Design Awareness Program	20 – 22 Feb
16.	Networking and use of sensors for onfarm Irrigation Water Management	20 – 22 Feb
17.	ISO 13485 International Standards for Medical Instruments	20 – 23 Feb
18.	Understand, Predict, and Optimize Real-World Designs, Devices, and Processes with COMSOL Simulation Software	20 – 24 Feb
19.	Desalination Process – Planning, Design & Operation	21 – 23 Feb
20.	Construction Management – Best practices and latest trends	22 – 24 Feb
21.	Power Quality, Harmonics Mitigation and Reactive Power Management (concepts of SIL, FACTS devices)	22 – 24 Feb