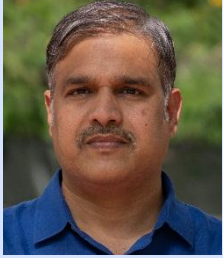




MESSAGE FROM THE PRESIDENT



Dear Friends,

On behalf the IAStructE I wish all the readers a happy and prosperous New Year 2024.

I am very happy to present to you the Newsletter of December 2023. You shall be happy to know that IAStructE is regularly organizing technical lectures, webinars, and publication of newsletters, CROSFALL & Structural Engineering Digest. You may find details of such activities and publications in this newsletter and on our website. If you are not yet the member of IAStructE, kindly become member to avail many benefits of the association.

Structural Engineering Digest (SED) October-December 2023 issue is dedicated to the "Tunnel/Underground Structures" theme. The fourth issue of CROSFALL is getting ready and will be released soon. You may contribute any case study on structural failure or description of a near-miss case for publication in future issues. Our various technical committees are working hard to bring technical documents relevant to the structural engineering fraternity.

In this newsletter, articles relating to Physical Seminar on "Steel Structures: Health Checkup and Cure (Inspection, Assessment, Rehabilitation, Retrofitting)" held on December 9, 2023, jointly by Institute for Steel Development and Growth (INSDAG), Webinar on "Setting a New Benchmark in Vertical Expansion of Buildings" by Dr Bujar Morava, Senior Consultant, RWDI, held on December 06, 2023, Webinar on "Latest Developments in Design of Post-Installed Rebar" by Er. Kamalika Kundu, Hilti Asia Pacific Pvt. Ltd. on 28 Dec 2023, and Multiple Facets of Cable Supported Infrastructure - An Event in memory of Mahendra Raj-Doyen of Engineering jointly organized by IAStructE/CEAI/IEI WB on 15 Dec 2023 are included.

Please send your feedback on our activities and suggestions for further improvements.

Best Regards,

Ramanchark

Prof. R. Pradeep Kumar
President-IAStructE

FROM THE EDITOR'S DESK



Dear Readers,

Wishing all our members and readers a joyful and prosperous New Year 2024!

This edition spotlights the organization's activities and proudly announces the remarkable achievement of one of our members, who has been honored with the prestigious "Druk Thuksey Award," the highest recognition in Bhutan. Stay connected with us on all our social media platforms for more updates.

Thanks and regards,

Visalakshi

Prof. Visalakshi Talakokula

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Events Organized:

Physical Seminar on “Steel Structures: Health Checkup and Cure (Inspection, Assessment, Rehabilitation, Retrofitting)”

On December 9, 2023, the Indian Association of Structural Engineers (IAStructE) and the Institute for Steel Development and Growth (INSDAG) jointly organized a one-day seminar in New Delhi on "Steel Structures: Health Checkup and Cure (Inspection, Assessment, Rehabilitation, Retrofitting)."

The focus of the seminar was to introduce and discuss various processes and methods for assessing, retrofitting, and rehabilitating steel structures to enhance their lifespan and utility. The event aimed to provide a platform for stakeholders to meet, discuss, understand, communicate, and share knowledge.

The program commenced with the inauguration by Shri Amarendu Prakash, Chairman-SAIL, serving as the Chief Guest. Dr. Abhay Gupta, Skeleton Consultants, a GC member of IAStructE and an EC member of INSDAG, also graced the inaugural session.

Distinguished speakers from both industry and academia, such as Dr. S. R. Satishkumar, Professor-IIT Madras, Dr. M. K. Madhavan, Professor – IIT Hyderabad, Dr. G. S. Palani, SERC Chennai, Mr. Manish Bharti, CEO - Cortex Construction Solutions Pvt. Ltd., and Dr. Sharvil Alex Faroz, Founder - Infrastructure Risk Management (IRM), shared their insights during the seminar.



Fig. 1 Distinguished personalities from the event



Fig. 2 Mr. Manish Bharti giving the lecture



Fig. 3 Dr. M. K. Madhavan giving the lecture



Fig. 4 Dr. S. R. Satishkumar giving the lecture



Fig. 5 Dr. G. S. Palani giving the lecture



Fig. 6 Dr. Sharvil Alex Faroz giving the lecture

Webinar on "Setting a New Benchmark in Vertical Expansion of Buildings"

An online webinar on "Setting a New Benchmark in Vertical Expansion of Buildings" was organized on December 06, 2023. It was delivered by Dr. Bujar Morava, Ph.D., P.Eng., Senior Consultant, RWDI. The Session was moderated by Mr. Abhijeet Kulkarni, Partner & Director –Structures, Burohappold. During the webinar attendees gained the valuable insights about limitless potential of vertical expansion.

You tube Link: <https://www.youtube.com/live/ejJyR-UNhRk>



Fig.7 Glimpses from the online webinar

Webinar on "Latest Developments in Design of Post-Installed Rebar"

An online webinar on "Latest Developments in Design of Post-Installed Rebar" was organized on December 28, 2023. It was delivered by Er. Kamalika Kundu, Regional Codes and Approval Manager, Hilti Asia Pacific Pte. Ltd., Singapore. During the lecture, attendees gained valuable insights about the installation of rebars.

You tube Link: <https://www.youtube.com/live/mwqcHdKaRoM>



Fig.8 Glimpses from the online webinar

Events Organized by IAStructE Eastern Region:

Multiple Facets of Cable Supported Infrastructure - An Event in memory of Mahendra Raj - Doyen of Engineering jointly organized by IAStructE/CEAI/IEI WB

A live event was held by the eastern region of IAStructE with eastern and north-eastern zones of CEAI and the mechanical engineering division of West Bengal State Centre of IEI on Friday 15/12/2023 from 2:30 pm onwards till 8 pm.

The event was titled Multiple Facets of Cable Supported Infrastructure and was dedicated to the memory of Sri Mahendra Raj, doyen of the Engineering profession. Initiated by the Vice President (east) of IAStructE, Sri Anirban Sengupta, CEAI and IEI joined to make the event a landmark after the long drought of physical events due to the pandemic. A core committee was formed with representatives from the three organizations and they worked very hard to make the event a rarity within a fortnight from the date the decision was made to organize the event.

The event saw participation from more than 150 delegates who showed a lot of enthusiasm with lively interaction throughout the program. Five organizations from the related industry joined as sponsors and with their financial participation registration fee was waived for the participants. The participants

came from consultancy organizations, the construction industry, manufacturers, and academia. What was remarkable was that the average age of participants was less than 40 years with many young engineers joining the event. For the first session deliberating on Cable Supported Bridges, topics covered design challenges, construction aspects, sustainability issues, and needs for effective health monitoring.

The second session dealt with appurtenances for such bridges and methodology for continuous monitoring of the bridges to ensure safe life.

The third session covered other cable-supported infrastructures like ropeways and cable cars and their increased use in urban centers.

The duration of the event exceeded the planned closure time of 7 pm by almost an hour and there was a large number of participants till the end.

The lessons learned from the event were:-

- 1) There is a strong demand from engineering professionals for more such live events on interesting engineering problems.
- 2) The industry is ready to participate in such events and prepared to offer financial support if the demand is not for large sums.
- 3) The industry is keen to participate in the technical deliberations and ready to depute speakers if they are allowed to highlight their capabilities and achievements.



Fig. 9 Glimpses of the Events



Fig. 10 Participants enjoying the session

Forthcoming Events:

Event	Speakers	Date & Timing	Place
Online Refresher Course on "Analysis, Design & Construction Aspects of Precast Structures" Registration Link: http://iastructe.co.in/online-refresher-course.php	Eminent Speakers	13 Jan 2024 from 03:00 PM to 06:00 PM	Online through Zoom

IAStructE Library:

IAStructE has set up a library at K-69 A, Basement Kalkaji, New Delhi. It has a collection of good technical books and journals related to civil & structural engineering. Members staying in the vicinity are encouraged to utilize this facility, and if you want to contribute your books and journal to the library you are always welcomed.



Fig 11 IAStructE Library

New Members:

“Fellow” Grade

M/S No	Name	Designation, Organization	State
F-548	Mr. Chandrashekar Prabhudesai	Self Employed Structural Engineer at Chandrashekar Prabhudesai & Associates	Goa
F-549	Mr. Sama Srinivas	Head at Structures at EO-DD	Dubai

“Member” Grade

M/S No	Name	Designation, Organization	State
M-371	Mr. Regan Mohan	Senior Design Manager at J&F India Pvt. Ltd.	Tamil Nadu

“Associate Member” Grade

M/S No	Name	Designation, Organization	State
AM-455	Mr. Prabhu Agrawal	Self Employed Structural Design Engineer at Prabhu Agrawal & Associates	Chhattisgarh
AM-456	Mrs. Usha M.	Independent Consultant at Vipra Engineering Services	Bangalore

“Student Member” Grade – 02

Members Achievements:

Mr. Arvind Kumar Mishra, Life Fellow IAStructE and Managing Director of MHPA, Trongsa, Bhutan, for being honored with the prestigious "Druk Thuksey Award," Bhutan's highest recognition. His Majesty the King of Bhutan bestowed this honor in Thimphu on the National Day of Bhutan, acknowledging Mr. Mishra's significant contributions to the country through the commissioning of the Mangdechhu Project.

On behalf of the governing body and members of IAStructE, we extend our heartfelt congratulations to Mr. Arvind Kumar Mishra for this well-deserved achievement.



Fig 11 The glimpses of Award Ceremony

Message from IAStructE social media & Digitization Committee

Let's get **"DIGITIZED"**

With all new look of our website and media handles, please follow us on all major media platforms. For joining us, below mentioned links to be pasted in browser. Let's join hands together to promote the profession of Civil Engineering.

1. on **TWITTER** as **IAStructE**: - <https://twitter.com/iastructe>
2. on **Facebook** as **IAStructE**: - <https://www.facebook.com/IAStructE-100114022302316>
3. on **LinkedIn**: - The group is defined as Indian Association of Structural Engineers-IAStructE
<https://www.linkedin.com/groups/6646248/>
4. on **YouTube** as **IAStructE Webinar**: - Subscribe and press bell icon
https://www.youtube.com/channel/UCvv7ojXO9Dxq1WtP_yHZTKw

Call for papers for CROSFALL:

CROSFALL is a newsletter created by Indian Association of Structural Engineers (IAStructE). Its purpose is to share lessons learnt from structural failures, near-misses and safety concerns. CROSFALL is greatly encouraged and inspired by CROSS (Confidential Reporting on Structural Safety), UK, which is a collaborative effort of three institutions (IStructE, ICE and IFE). **There is however no connection between CROSFALL-IAStructE and CROSS-UK**

CROSFALL Editorial Board invites reports for the forthcoming issues. Interested candidates can send the reports about structural safety issues related to all types of structures (i.e. buildings, bridges, tunnels, industrial structures etc.) in the built environment. The reporting can be related to:

- *Structural failures,*
- *Poor Design and Detailing, Lack of Seismic Safety in planning*
- *Safety concerns about high risk erection schemes at Site*
- *Safety concerns on Temporary Works*
- *Near misses, or observations relating to procedures followed at site, which may lead to failures or collapses.*

Reports do not have to be about current activities so long as they are relevant. Small scale events are equally important - they can be the precursors to more major failures. Report might relate to a specific experience or it could be based on a series of experiences indicating a trend. No concern is too small to be reported and conversely nothing is too large. Reports should aim to include information that will help others to learn from the safety issue identified.

To submit the report please go through the following link: www.iastructe.co.in/crosfall.php

Call for papers for the theme-based issue of SED journal:

SED Editorial Board invites article contributions for the forthcoming issue of the Structural Engineering Digest on the following themes, which shall be published in e-book format. Details are as under:

January-March 2024 issue: Theme: Tunnel/Underground Structures

Guest Editor: Mr. Partha Banerjee

Sub-theme:

- Tunnel Design: TBM, NATM, Cut & Cover and Cross Passage
- Tunnel Construction: TBM, NATM, Cut & Cover and Cross passage
- Underground Station Design
- Underground Station Constructions
- Instrumentation & Monitoring and Damage Assessments
- Geophysical Investigation in Urban Area

April-June 2024 issue: Theme: Industrial Structures

Guest Editor: Mr. V. N. Heggade

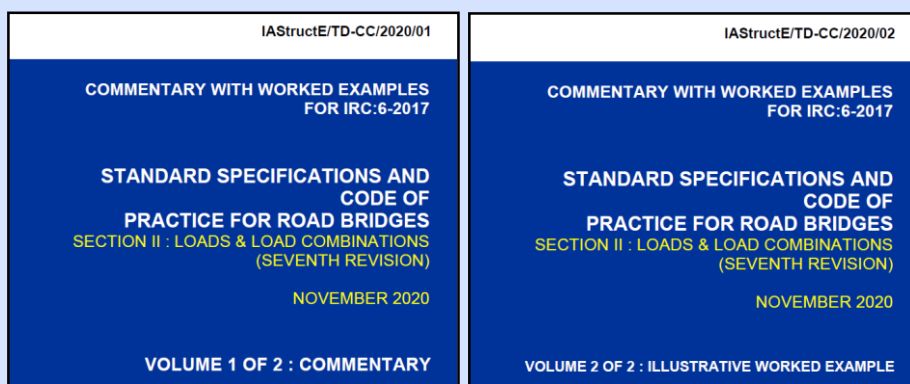
Sub-theme:

- Industrial Cooling towers and chimneys
- Factory Buildings
- Balance of plant structures in nuclear power plants, Thermal power plants, and hydel power plants
- Structures in steel and cement plants

Interested professionals may send their abstract along with the full paper on any of the above issues along with their photograph and brief resume latest by 30 January 2024 or at the earliest convenience. Articles are invited from i) Members of IAStructE; ii) Specialists in the field even though they are not members of IAStructE.

IAStructE Publications:

1. Commentary with Worked Examples for IRC: 6-2017: It is a document having commentary with worked example on IRC: 6-2017 (The code for Loads & Load Combinations for design of Highway Bridges). This commentary is in two separate volumes. Volume-1 pertains to the Commentary while Volume-2 pertains to Illustrative Worked Examples. It has 48 worked examples demonstrating application of various codal clauses.

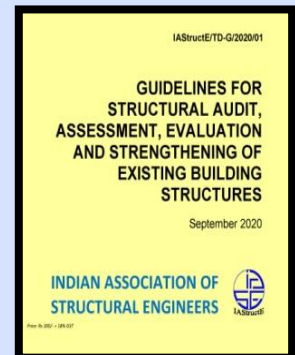


It's a priced document and hence not freely downloadable.

The documents are available for sale @ Rs. 1200/- for Volume 1, and @ Rs. 800/- for Volume II. Members of IAStructE and IRC will be entitled for a discount of 10% on this amount. Interested professionals who wish to purchase the commentary may kindly register with the following link or contact IAStructE Secretariat at iastructe@gmail.com

Registration link: <http://iastructe.co.in/new-iastructe-publication.php>.

2. Guidelines for Structural Audit, Assessment, Evaluation and Strengthening of Existing buildings Structures: This document will guide structural engineers in proper assessment of building structures before issuing structural stability certificate. These guidelines may be used by IAStructE members, all other structural engineers, house owners, housing society welfare associations, clients and corporation engineers for understanding structural audit of the private and public building structures. The Guideline focuses on the urgent need to strengthen risk resilience of buildings from any kind of risks due to earthquake and other hazards. It is hoped that this document will be useful to ensure that all structures across the country remain safe from any kind of disaster risk.



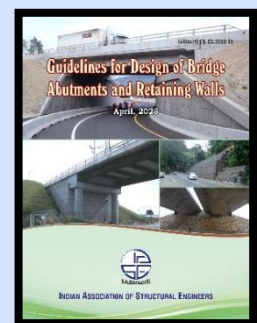
It's a priced document and hence not freely downloadable.

The price of this e-document is Rs 200/-. Interested professionals, who wish to obtain the soft version of the Guideline in pdf format, may register with the following link. Registration Link: <http://iastructe.co.in/guidelines-for-structural-audit.php>

3. Commentary on IS: 13920: The commentary is available on www.iastructe.co.in under IAStructE Professional Documents. IAStructE member can access this document after login.

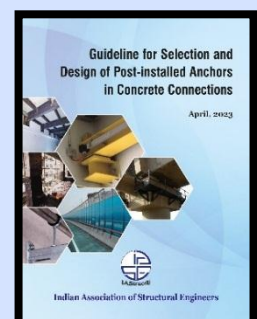
4. Commentary on IS: 1893 Part 1: The commentary is available on www.iastructe.co.in under IAStructE Professional Documents. IAStructE member can access this document after login.

5. Guidelines for Design of Bridge Abutments and Retaining Walls: This document will assist practicing bridge and structural engineers in building confidence in the design of these structures, which offers tools for the design of economic and innovative retaining structures. The document is rich in theoretical explanations and draws on much experience of the authors. Worked examples further illustrate the application of the applicable codes and should promote better understanding.



The document is available for sale @ Rs. 1500/-. Interested professionals who wish to purchase this document may kindly contact IAStructE Secretariat at iastructe@gmail.com

6. Guideline for Selection and Design of Post-installed Anchors in Concrete Connections: In this document, only post-installed anchors are covered including their types, behaviour and working principles, failure modes, and basic design steps for non-seismic and seismic situations. A few illustrative design examples too are presented for better understanding of design methodology. This document is now available on www.iastructe.co.in under IAStructE Professional Documents. IAStructE member can access this document after login.



IAStructE is now a Statutory Member of fib:



Indian Association of Structural Engineers is now a Statutory Member of *fib*

We are delighted to announce that IAStructE has become the Statutory Member of *fib* and Indian National Member Group representing India in *fib* general assembly.

The *fib*, which is “The International Federation For Structural Concrete” (Fédération Internationale du béton in French), is a not-for-profit association formed by 41 national member groups, is spread over more than 100 countries. *fib* has approximately 2500 corporate and individual members. The *fib*'s mission is to develop at an international level the study of scientific and practical matters capable of advancing the technical, economic, aesthetic and environmental performance of concrete construction.

As a statutory member of *fib*, IAStructE will represent India in the General Assembly and will enjoy the following benefits, which are exclusive to national member groups only:

- Voting rights in the general assembly of *fib*;
- Hosting rights for *fib* congresses and symposia;
- Events organised by IAStructE can be co-sponsored by the *fib*;
- Rights to nominate candidates for *fib* awards.

Members of IAStructE will enjoy the following benefits:

- Opportunity to become a part of *fib* technical committees and contribute to the *fib* Model Codes (published approximately every 10 years).
- Opportunity to become a part of the *fib* Task Groups and Commissions .
- Opportunity to be nominated for the *fib* awards thru' IAStructE.
- Access to all the bulletins published since the 2022 through IAStructE.
- Eligible for 'subscribing' membership by paying discounted subscription fee.
- All current publications of *fib* can be purchased at discounted rates.

More information about the *fib* publications, bulletins, events, courses, and their proceedings can be obtained from <https://www.fib-international.org>

INDIAN ASSOCIATION OF STRUCTURAL ENGINEERS

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Full Page	Rs. 20,000/- + 18% GST	Rs 64,000/- + 18% GST	9.5-inch x 7 inch

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	Rates for advertisement	Advertisement Size
Full Page	Rs. 10,000 per issue, 10% rebate for quarterly, 20% rebate for half yearly and 30% rebate for yearly booking	9.5-inch x 7 inch
Half Page	Rs. 7,000/- + 18% GST per issue, 10% rebate for quarterly, 20% rebate for half yearly and 30% rebate for yearly booking.	4.75-inch x 7 inch
1/8th of a Page	Rs. Rs. 2,000/- + 18% GST per issue, 10% rebate for quarterly, 20% rebate for half-yearly, and 30% rebate for yearly bookings. (Only for IAStructE Members)	Standard size of Business Card

Accredited Structural Engineers (ASE – IAStructE):

The IAStructE program for Accreditation as Accredited Structural Engineers (ASE – IAStructE) is suitable for practicing structural engineers who have experience in the structural design field and have a good understanding of applicable design codes/standards in India.

This accreditation will help Structural Engineers in India to set a benchmark of proven professional & technical excellence and raise the levels of structural engineering practice in the Country. The entire program would be on the basis of a two-stage process consisting of an interview for the assessment of Initial Professional Development (IPD) followed by a written examination based on actual problem-solving. Applicants have to demonstrate their competence in the designated 12 key attributes on which they will be assessed during the interview. The applicant would then require to clear the examination by answering any single chosen question from the options given in the question paper with a minimum level of marks stipulated. Both stages are mandatory to clear the assessment process and thus to get recognition.

An Accredited Structural Engineer – IAStructE is someone who wishes to:

- validate their comprehensive experience and understanding of all types of structural engineering work and managerial capabilities
- demonstrate their competence on the basis of IPD and Continuous Professional Development activities in the field

Details of the application and assessment requirements, fees, and available dates can be consulted in the relevant fields given in the tabs below. They summarize the general application process, the assessment requirements, and the steps needed to qualify for the ASE-IAStructE accreditation.

The complete information about the entire process along with the application form and annexures can also be obtained from a booklet, which can be downloaded from the following link: <https://www.iastructe.co.in/ase-iastructe-accreditation.php>

This assessment process will be held bi-annually, being initiated in January & July respectively.

About IAStructE:

Indian Association of Structural Engineers (IAStructE) is the national apex body of structural engineers in India established with the objective to cater to the overall professional needs of structural engineers. The association has become the source of expertise and information concerning all issues that involve structural engineering and public safety within the built environment. It has no commercial aim or objective. IAStructE is purely a professional learned society with the prime objective of supporting and protecting the profession of structural engineering by upholding professional standards and acting as a mouthpiece for structural engineers. IAStructE endeavors to ensure that its members develop the necessary skill in structural engineering and work to the highest standards by maintaining a commitment to professional ethics and standards within structural engineering. IAStructE strives for continued technical excellence; advancing safety and innovation across the built environment. It also strives to make available to the Government, Public Sector and Private Sector - a credible source of well qualified and experienced Structural Engineers. A nationwide database of Structural Engineers has been compiled and is being constantly updated. IAStructE undertakes a broad range of technical activities which are aimed at information sharing and capacity building. The association provides opportunity for all the members to develop various skills in structural engineering and helps members to be at the forefront of structural engineering practice. Towards achievement of its aims and objectives, IAStructE is engaged in organizing the following: CPD Courses for Professionals at all levels Refresher Courses for Fresh Graduate Engineers, Student's orientation program, Seminars/Workshops, Technical Lectures by Experts, Technical Discussions on Contentious Issues. IAStructE is currently operating from four regional centers. These regional centres located in the Eastern, Western, Northern and Southern parts of the country effectively cater to the professional needs of members residing/practicing all over the country.

Membership Benefits:

Membership of IAStructE is a sought-after professional accreditation. Your membership of IAStructE can help you enhance your intellectual, academic, technical and professional status. It provides inter connectivity to the fellow professionals and the fraternity. Some of the benefits of membership is provided below:

- ★ Complimentary magazine subscription: All members (except Student Members) receive a complimentary subscription to the Institution's flagship publication 'Structural Engineering Digest' (SED). Published quarterly, each issue allows members to remain connected to the association through the provision of technical papers, Industry and Institution News, featured articles, Professional Guidance on everyday matters affecting the practicing structural engineers.
- ★ Access to the professional documents
- ★ Access to all Technical Lectures, organized every month, at no charge
- ★ Access to Technical Discussions held regularly
- ★ Access to the association's library (Including e-library)
- ★ Discounts in attending Seminars and Workshops organized by the association
- ★ Full on-line access to the current volume and entire e-archive of journal "Structural Engineering Digest (SED)", Refresher Course Materials, Technical Lectures, E-Newsletters and other Technical Resources of the Association.
- ★ Opportunity to network with professional structural engineers of eminence and to meet potential employers in the association.
- ★ Opportunities for professional development

How to become a member?

Membership form and details are available at <https://www.iastructe.co.in/membership-grades.php>; for more information and other details contact the Indian Association of Structural Engineers Secretariat

Indian Association of Structural Engineers

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Indian Association of
Structural Engineers

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