A.F.M Saiful Amin

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Career Summary:

- Working as Professor of Bangladesh University of Engineering & Technology (BUET) & have 24 years' experience as an Academician in Learning & Development industry comprised of teaching in civil engineering, R&D, innovation, project & thesis supervision, Latest construction methodology, Bridge Engineering, on-job consultancy, Software, Automation, Architect & Structural solution area.
- Designed, Developed & Implemented modern teaching system in civil engineering with latest technical curriculum as per global standard & leading the Policymaking, Regulatory & administrative issues, designing course curriculum, supervising the teaching process & mentoring the students & lecturers.
- A respected Fellow of Institution of Civil Engineers, UK (presidential invitation) and Geotechnical & Earthquake Society of Bangladesh, IEB, International Associations of Bridge & Structural Engineer. & member of American Society of Civil Engineers who has participated in several research & conferences & received awards and grants, travelled & given lectures in 10+ countries on civil engineering solution.
- Led a dedicated R&D teams have overseen the repair and retrofitting of structures, helping increase & preserve the structural soundness of many important buildings and remarkable bridges in Bangladesh.
- Specializing in the fields of structural engineering—particularly structural mechanics—and applied mechanics, thermodynamics, thermo-physics and cement chemistry.

Objective:

- To work as an **International University Professor** & spread knowledge on civil engineering specially in Bridge Construction & Structural Engineering, around the world.

Key Proficiencies:

- E-Learning
- Construction Consultancy
- Training & Development
- Creativity & Change Management
- Cognitive Flexibility
- Knowledge Management
- Policy & Content Making
- Research & Development

Working Experience:

1. **Organization Name:** Bangladesh University of Engineering & Technology (**Website:** *buet.ac.bd/*)

Designation 1: Professor **Duration:** From 2011 to till now
Designation 2: Associate Professor **Duration:** From 2005 to 2010
Designation 3: Assistant Professor **Duration:** From 2001 to 2004
Designation 4: Lecturer **Duration:** From 1996 to till now

- Leading all the academic activities with a team of junior teachers, disbursing task among them, mentoring & follow up & monitoring & evaluating their performance as per KPI at the end of the year.
- Developing Policy for the department, Costing & Budgeting & implementing them properly.
- Monitoring the running programs, designing the curriculum, setting the contents & modules, assigning teachers for particular course.
- Creating e-learning platform for the students & conducting class from virtual platforms.
- Initiated for different knowledge sharing & capacity development programs for the teachers.
- Supervising thesis, giving creative idea, providing guideline to students regarding project progress.
- Supervising Departmental work & promotes excellence in instruction, scholarly & creative productivity
- Reviewing the Departmental policies, procedures, recommendations for appointment, salary, retention, tenure, and/or promotion of faculty, and ensuring that all the policies are followed.
- Conducting different courses on civil engineering, preparing question & evaluating results.
- Representing the University from different national & international platform when required.
- Operating the day to days functional activities & initiating for different improvement projects.
- Increased research & development activities by encouraging faculty members & students.

Key Achievements:

- Contributed in the following research topic:
  - Generalization of Hook's law for hyper elasticity & nonlinear dependence of viscosity in rubber
  - finite element implementation of large strain constitutive models representing material and geometric nonlinearities
  - rheology model of base isolation bearings for earthquake protection.
  - Recycling of demolished concrete characterization of dilation effect in local materials (brick and stone aggregate concrete) for strengthening of columns;
  - Characterization of de-bonding phenomena in FRP strengthened beams.
- Completed 50+ publications in peer reviewed International Journals and conference proceedings.
- Conducting Research on the following topics:
  - Development of constitutive models for rubber & FE implementation of models for simulation
  - Design and performance optimization of base isolation bearings and expansion joints.
  - Corrosion in steel under atmospheric exposure conditions of Bangladesh
  - FE modelling of shells, domes and arches
  - Curing behaviour of concrete
  - Recycling of demolished concrete
  - Investigating the residual cementing properties in concrete
  - Development of NDT correlations for concrete
  - Study the dynamic behaviour of pedestrian bridges
  - Failure analysis and forensic investigations
  - Measurement and specimen preparations
  - Further details of current research results and accomplishments are available at the URL located at https://saifulamin.info/ OR https://ce.buet.ac.bd/profile-of-a-f-m-saiful-amin/
- Developed collaboration with 15+ universities & conducted class on different topics at home & abroad. (Saitama University, University of Tokyo, Tohuko University, Osaka University, Daido University, Japan, JFe Steel Corporation, Japan, Japan Rubber Bearing Fabricators' Association, Kawakin-Core Tech, Japan, University of Kassel and University of Federal Armed Forces Munich, Germany are notable)
- Design, construction, maintenance & strengthening of long span bridges, maintenance of bearings and joints for bridges, strengthening of buildings, promoting the appropriate use of recycled concrete.
- Led the Repair, strengthening and health monitoring of Bangabandhu Jamuna Bridge (4.8 km), the Meghna Bridge (930m) and the Gumti Bridge (1410 m), Strengthening of 8-storied Gausia Market, 21 storied Marriott Courtyard Dhaka.
- Organized seminars and symposiums on bridge engineering (2005, 2010, 2015 bridge engineering conferences), the major civil engineering infrastructure for the country.
- Conducting research in development of methodology for repair and retrofitting of non-compliant structures & for producing green concrete by best utilizing the demolished recycled concrete.

Awards & Appreciations:

- ICE Ambassador from South Asia in bicentenary celebration of the Institution of Civil Engineers (ICE), United Kingdom 2018
- FY2016 JSCE International Outstanding Collaboration Award for continuous efforts and remarkable contribution to the development of infrastructures in Bangladesh,
- Fellow on Presidential Invitation, Institution of Civil Engineers, United Kingdom.
- Research Fellow, Alexander von Humboldt Foundation, Germany, since 2007.
- Visiting Professor, Faculty of Aerospace Engineering, University of Federal Armed Forces Munich, Germany, during February 2007-August 2007.
- Visiting Professor in the Institute of Mechanics, University of Kassel, Germany, during Aug -Nov 2004.
- Recipient of Ministry of Education, Science and Culture of the Government of Japan (Monbusho) scholarship for undertaking doctoral research in the Saitama University, Japan.
- Recipient of Malik Akram Hossain Gold Medal 1996 for securing first position in BSc. Engg. (Civil).
- Received University Merit Scholarships during the academic sessions 1989-90, 1990-91 and 1991-92 for outstanding academic results.

Guest & Keynote Lectures:

- Delivered lecture on "Retrofitting of Buildings and Bridges in Bangladesh: Needs and Intricacies" in 68th Founding Anniversary Presentation of IEB in May 2016
- Spoke on "Participation of Bangladesh in Regional Surface Transportation Connectivity: Prospects and Intricacies" by FEISCA Seminar on Regional Cooperation for Connectivity in Surface Transportation.
- Intrinsic Properties of Brick Aggregate Concrete: A Review at the CICM 2015 at MIST, Dhaka.
- Design, construction & maintenance of bridges in Bangladesh: In the past, present & future, Keynote address at the IABSE-JSCE Joint Conference on Advances in Bridge Engineering-III & Centennial Celebration of Hardinge Bridge in 2015 (Redelivered the lecture at AUTS, CUET & RUET)
- Bridge Dynamics and its Applications in Maintenance and Rehabilitation, ICE-IEB Seminar, in 2012
- Seminar On "Developing a physically-based and thermo mechanical-consistent constitutive theory for rubber with special reference to temperature history effects" in Sept 2009 at Friedrich-Alexander-University, Erlangen-Nürnberg, Germany.
- Joined in International Collaborative Graduate Program arranged by Saitama University, Japan on Improved Application of High Damping Rubber for Earthquake Resistant Design in 2008.
- Seminar on High Damping Rubber in Earthquake Resistant Design of Structures and Development of Constitutive Models for Rubber organized by McGill University & Concordia University, Canada in 2007
- Delivered lecture on High Damping Rubber for Base Isolation Bearings: Experimental Characterization, Constitutive organized by Technical University of Braunchweig, Germany on May 2007
- Spoke on Application of High Damping Rubber for Base Isolation Bearings organized by University of Federal Armed Forces Munich, Germany in 2007
- Gave lecture on "High Damping Rubber for Base Isolation Bearings: Experiments & Constitutive Modelling" organized by Institute of Mechanics, University of Kassel, Germany in Oct 2004

Books and Nomo graphs:

- Amin, A.F.M.S. (2001). Constitutive Modelling for Strain-rate Dependency of Natural and High Damping Rubbers, Doctoral Dissertation, Department of Civil and Environmental Engineering, Saitama University, Japan. Supervisor: Professor Yoshiaki Okui
- Amin, A.F.M.S. (1998). An Improved Design Rationale for Helicoidal Stair Slabs Based on Finite Element Analysis, Masters Dissertation, Department of Civil Engineering, Bangladesh University of Engineering and Technology, Dhaka. Supervisor: Professor S. Ahmad.
- Amin, A.F.M.S. (1996a). Studies on the Strength of Brick Aggregate Concrete with special reference to Curing Conditions, Discontinuous Curing and Testing Conditions, BSc Engg Dissertation, Department of Civil Engineering, BUET, Dhaka. Supervisor: Professor S. Ahmad
- Amin, A.F.M.S. (1996b). Improved Design Procedure for Helicoidal Stair Slabs based on Finite Element Analysis, BSc Engg Dissertation, Department of Civil Engineering, Bangladesh University of Engineering and Technology, Dhaka. Supervisor: Professor S. Ahmad

Professional Experience as Consultant:

- Design Review Consultant for Construction of 162 km Railway between Dhaka & Jashore crossing the Padma Bridge for Bangladesh Railway from BUET as associate consultant Bangladesh Army.
- National Expert for construction of First Dhaka Elevated Expressway for Bangladesh Bridge Authority.
- Expert services for Rating of Bongabandhu Bridge (4.8 km long) for Bangladesh Bridge Authority.
- Checking the structural design of 115m steel truss for the Surma Bridge in Sylhet for Roads & Highways
- Design Modification for Completion of 465m PC Girder Bridge over the Lohalia River for LGED.
- Consultancy services for the construction of 20-storied academic & administrative building for BUTEX.
- Checking the Structural Safety of Bangladesh Bridge Authority Headquarter Building,
- Checking structural safety of a building of ICDDRB, Dhaka, Bangladesh.
- Consultant of Bangladesh Bridge Authority for Identification of Cracks in Bangabandhu Bridge in 2006,
- Advisor to the Bangladesh Bridge Authority for Repair & strengthening of in the 4.8 km long Bangabandhu Jamuna Bridge during 2012-2015, the longest bridge of Bangladesh.

- Team Leader for Structural Health Monitoring of 4.8 km long Bangabandhu Jamuna Bridge during 2014-2015, the longest bridge of Bangladesh.
- Team Leader for Repair and Rehabilitation of Meghna and Meghna-Gumti Bridges, Roads and Highways Department, Bangladesh in 2012, the two important bridges of Bangladesh to maintain connectivity between Dhaka, the Capital and Chittagong, the major port City.
- Identification of problems and solutions for Khodarhat Bridge, Roads & Highways, Bangladesh & Mahananda and Meghna Bridges of Local Government Engineering Department in 2012-2013.
- Technical advisor for 100m and 115m steel bridges of Roads & Highways, Bangladesh during 2011-2015.
- Strengthening of Gausia Market, many other market places and commercial facilities in introduction of fibre reinforced polymer and micro-concrete jacketing technique during 2006-2015.
- National Expert Committee to Investigate the Collapse of Bohoddarhat Flyover during Construction.
- Investigation of Spectrum Sweater Factory Building Collapse in 2005.
- Team Leader for Technical Services in Construction of 60-90m Telecommunication Towers for Police as its Dhaka-Chittagong Microwave Backbone & Dhaka City CCTV Surveillance network in 2009.
- Team Leader for Structural Safety Assessment of over 100 commercial and industrial buildings aftermath of Rana Plaza Collapse 2013 and Nepal Earthquake 2015.
- Advisor, Updating of Bangladesh National Building Code 2015.

Academic Qualification:

- Completed Ph.D. from Saitama University in 2001.
- M.Sc. in Civil from Bangladesh University of Engineering & Technology in 1998.
- B.Sc. in Civil from Bangladesh University of Engineering & Technology in 1996.

Membership:

- Editor, Journal of Civil Engineering, Institution of Engineers, Bangladesh [2006 to date]
- Member Secretary, Board of Accreditation for Engineering & Technical Education, Bangladesh.
- Member, Civil Engineering Divisional Committee, Bangladesh Standards and Testing Institution (BSTI), responsible for enacting & revising standards for all civil engineering construction materials. [2013-16]
- General Secretary, International Association for Bridge and Structural Engineering, [2010 to date]
- Member Secretary of Institution of Engineers Bangladesh from 2016 to till now
- Member, Scientific Committee, 38th IABSE Symposium, Geneva, Switzerland, September 23-25, 2015 on 'Structural Engineering - a solution provider to global challenges'.
- Vice Chairman of Bangladesh Chapter of Institution of Civil Engineers from 2018 to till now
- Member Secretary, Steering Committee to organize the IABSE-JSCE International Conference on Advances in Bridge Engineering-III in association with the Japan Society of Civil Engineers and ICE (UK), ICE Centre Bangladesh, ASCE Bangladesh IS, Institution of Engineers, Bangladesh, Japan Concrete Institute and Japan Pre-stressed Concrete Institute as the co-organizers.
- Member, Scientific Committee, 36th IABSE Symposium, Kolkata, India, September 24-27, 2013 on 'Long Span Bridges and Roofs - Development, Design and Implementation'.
- Council Member of the Dhaka Centre, Institution of Engineers, Bangladesh. [2004-2005 & 2009-2010]
- Member, ICT Committee, Dhaka Centre, Institution of Engineers, Bangladesh. [2009-2010]
- Member, Executive Committee, BUET Teachers' Association [2009]
- Member, International Advisory Committee, 12th International Conference of International Association for Computer Methods and Advances in Geomechanics; 1-6 October, 2008, Goa, India.
- Member, Editorial Board of the 3rd Annual Paper Meet & International Conference on Civil Engineering being organized by the Civil Engineering Division, IEB in 2005.
- Member, Scientific Committee, US-Bangladesh Workshop on Innovation in Windstorm/Storm Surge Mitigation, Dhaka, LGED Bhaban, 19-21 December 2005.
- Member of the Editorial Board for reviewing and scrutinizing papers for the National Seminar.

Computer Skill: Sound in Microsoft office **Language:** Fluent in Bangla and English.

Annexure:

Research Outcome:

1. The generalization of Hook's law in representing the nonlinear elasticity response of materials is a significant research outcome of the applicant. The strain energy density function thus proposed got wide recognition among contemporary experts and scientists of mechanics. [Ref: Bechir, H., Chevalier, L., Chaouche, M., Boufala, K., (2006). Hyperelastic constitutive model for rubber-like materials based on the first Seth strain measures invariant, European Journal of Mechanics A/Solids 25 (2006) 110–124].
2. The proposal for nonlinear viscosity law got wider applicability in modelling the viscoelastic response of highly deformable solids, e.g. artificial human muscles. [Ref: Shanshan Lv, Daniel M. Dudek, Yi Cao, M. M. Balamurali, John Gosline & Hongbin Li, (2010). Designed biomaterials to mimic the mechanical properties of muscles, Nature, 465, 69-73.]
3. The measurements of Prof. Amin in the field of nonlinear elasticity and viscosity are regarded now as the benchmark measurements for conducting numerical simulations worldwide. [Ref: Dal, H., Michael Kaliske, M., (2009). Bergström–Boyce model for nonlinear finite rubber viscoelasticity: theoretical aspects and algorithmic treatment for the FE method, Comput. Mech., 44, 809-823; Spathis, G., Kontou, E., (2007). Modelling of nonlinear viscoelasticity at large deformations, Journal of Materials Science, Volume 43, Number 6, 2046-2052].

(Note: The scientific literatures published by Prof. Amin got wide citations in current literatures published in Nature, Mechanics of Materials, Journal of Engineering Mechanics (ASCE), International Journal of Plasticity, European Journal of Mechanics: Part A: Solids, Acta Mechanica, Applied Numerical Mathematics, Archive of Mechanics, Computational Mechanics, International Journal of Mechanical Science, Springer Proceedings in Physics, Smart Materials & Structures, Journal of Elastomers & Plastics & Journal of Material Engineering)

Peer-reviewed journals:

1. Choudhury, M.S.I., Y. Matsumoto & A. F. M. S. Amin. "Scour depth estimation in a balanced cantilever bridge with deteriorated central hinges based on natural frequencies: field measurements, methodology for estimation and verification." Journal of Civil Structural Health Monitoring 8.4 (2018): 617-634.
2. Hasnat, A., Islam, M. M., & Amin, A. F. M. S. (2015). Enhancing the Debonding Strain Limit for CFRP-Strengthened RC Beams Using U-Clamps: Identification of Design Parameters. Journal of Composites for Construction, 04015039.
3. Islam, M. M., Choudhury, M. S. I., & Amin, A.F.M.S. (2015). Dilation Effects in FRP-Confined Square Concrete Columns Using Stone, Brick, and Recycled Coarse Aggregates. Journal of Composites for Construction, 04015017.
4. Hossain, M., Amin, A.F.M.S., & Kabir, M.N. (2015). Eight-chain and full-network models and their modified versions for rubber hyperelasticity: a comparative study. Journal of the Mechanical Behavior of Materials, 24(1-2), 11-24.
5. Amin, A.F.M.S., Hasnat, A., Khan, A.H. & Ashiquzzaman, M. (2015). Residual cementing property in recycled fines and coarse aggregates: Occurrence and quantification, Journal of Materials in Civil Engineering [accepted for publication on 31 August 2015]
6. Choudhury, M.S.I., Amin, A.F.M.S., Islam, M.M., Hasnat, A. (2015). Effect of confining pressure distribution on the dilation behavior in FRP-confined plain concrete columns using stone, brick and recycled aggregates, Construction and Building Materials. [accepted for publication on 1 Nov, 2015]
7. Nguyen, D.A., Dang, J., Okui, Y., Amin, A.F.M.S., Okada, S., & Imai, T. (2015). An improved rheology model for the description of the rate-dependent cyclic behavior of high damping rubber bearings. Soil Dynamics and Earthquake Engineering, 77, 416-431.
8. Amin, A. F. M. S., Bhuiyan, A. R., Hossain, T., & Okui, Y. (2014). Nonlinear Viscosity Law in Finite-Element Analysis of High Damping Rubber Bearings and Expansion Joints. Journal of Engineering Mechanics.
9. Razzaq, M. K., Okui, Y., Bhuiyan, A. R., Amin, A.F.M.S., Mitamura, H., & Imai, T., (2012). Application of Rheology Modeling to Natural Rubber and Lead Rubber Bearings: A Simplified Model and Low Temperature Behavior. Structural Engineering/Earthquake Engineering, JSCE, 29(2), 40-55.
10. Hossain, M. F., Molla, M. A. I., Masum, S. M., Rana, A. A., Amin, A.F.M.S., Chowdhury, R.S., Sultana, S., & Karim, M.M., (2012). Chemical and Sedimentological Characterization of Moulvibazar Silica Deposit of Bangladesh as Standard Sand, IJBAS-IJENS Vol:12 No:06, 170-176.

11. Amin, A.F.M.S., Haque, M.M., Siddiqi, M.Z.R., Rahman, M.A., Islam, M.S., & Alam, M.K., (2012). Use of selected silica deposits of Bangladesh as standard sand in testing compressive strength of hydraulic cement mortars: A proposal for strength correlation, Journal of Civil Engineering, IEB, Journal of Civil Engineering (IEB), 40 (2), 181-202.
12. Amin, A.F.M.S., Lion, A., Höfer, P., (2010). Effect of Temperature History on the Mechanical Behavior of a Filler-Reinforced NR/BR Blend: Literature Review and Critical Experiments, Journal of Applied Mathematics and Mechanics / Zeitschrift für Angewandte Mathematik und Mechanik, 90(5), 347-369.
13. Amin, A.F.M.S., Lion, A., Sekita, S., Okui, Y., (2006a). Nonlinear dependence of viscosity in modeling the rate-dependent response of natural and high damping rubbers in compression and shear: Experimental identification and numerical verification, Int. J. Plast., 22(9), 1610-1657.
14. Amin, A.F.M.S., Wiraguna, S.I., Bhuiyan, A.R., Okui, Y. (2006b). Hyperelasticity model for FE analysis of natural and high damping rubbers in compression and shear, J. Engrg. Mech., ASCE, 132(1), 54-64.
15. Amin, A.F.M.S., Alam, M.S., Okui, Y. (2003). Measurement of lateral deformation of natural and high damping rubbers in large deformation uniaxial tests, J. Testing Eval., ASTM, 31(6), 524-532.
16. Amin, A.F.M.S., Alam, M.S. and Okui, Y. (2002). An improved hyperelasticity relation in modeling viscoelasticity response of natural and high damping rubbers in compression: experiments, parameter identification and numerical verification, Mechanics of Materials, 34, 75-95.
17. Amin, A.F.M.S., Alam, M.S. and Okui, Y. (2001). Nonlinear Viscoelastic Response of Elastomers: Experiments, Parameter Identification and Numerical Simulation, Journal of Structural Engineering, JSCE, 47A, pp. 181-192.
18. Ahmad, S. and Amin, A.F.M.S., (1998). Effect of Curing Conditions on Compressive Strength of Brick Aggregate Concrete, Journal of Civil Engineering, Institution of Engineers, Bangladesh, Vol. CE26, No.1, pp. 37-49.

Conference Proceedings:

1. Choudhury, J.R. & Amin, A.F.M.S. (2019). Establishing an Internationally Benchmarked Accreditation System for Engineering Education in Bangladesh, International Symposium for Quality Assurance in Engineering Education through Accreditation, Board of Accreditation for Engineering and Technical Education, Institution of Engineers, Bangladesh, March 2019.
2. Amin, A.F.M.S. & Choudhury, J.R. (2015). Intrinsic Properties of Brick Aggregate Concrete: A Review, First International Conference on Advances in Civil Infrastructure and Construction Materials (CICM 2015), MIST, Dhaka, Bangladesh, 14-15 December 2015.
3. Amin, A.F.M.S. & Okui, Y. (2015). Design, construction and maintenance of bridges in Bangladesh: In the past, present and future, Keynote Paper, Proceedings of the IABSE-JSCE Joint Conference on Advances in Bridge Engineering-III, August 21-22, 2015, Dhaka, Bangladesh, pp. 57-76. DOI: 10.13140/RG.2.1.4005.8082
4. Choudhury, M.S.I., Tobita, R., Amin, A.F.M.S. & Matsumoto, Y. (2015). Experimental investigation on dynamic characteristics of Meghna bridge at different structural conditions, Proceedings of the IABSE-JSCE Joint Conference on Advances in Bridge Engineering-III, August 21-22, 2015, Dhaka, Bangladesh, pp. 466-475. DOI: 10.13140/RG.2.1.2432.9449
5. Amin, A.F.M.S., Islam, M.M., Fuad, N., Choudhury, M.S.I., Hasnat, A. & Amanat, K.M. (2015). Shift in the natural frequencies of the deck of Bangabandhu Jamuna bridge due to CFRP strengthening, Proceedings of the IABSE-JSCE Joint Conference on Advances in Bridge Engineering-III, August 21-22, 2015, Dhaka, Bangladesh, pp. 456-460. DOI: 10.13140/RG.2.1.3481.5204
6. Noor, S.T., Amin, A.F.M.S. & Khan, A.J. (2015). Numerical investigation of a counter measure to control local scour around a bridge pier: A new source of bridge vibration, Proceedings of the IABSE-JSCE Joint Conference on Advances in Bridge Engineering-III, August 21-22, 2015, Dhaka, Bangladesh, pp. 204-211. DOI: 10.13140/RG.2.1.4792.2409
7. Amin, A.F.M.S., Amanat, K.M., Ahsan, R. & Rahmatullah, R. (2015). Renovation of two century-old steel truss railway bridges to increase the vertical clearance, Proceedings of the IABSE-JSCE Joint Conference on Advances in Bridge Engineering-III, August 21-22, 2015, Dhaka, Bangladesh, pp. 561-568. DOI: 10.13140/RG.2.1.2695.0889

8. Amin, A.F.M.S., Amanat, K.M., Islam, M.M. & Bhuiyan, M.A.R. (2015). Structural adequacy of a deformed prestressed concrete girder in Khodarhat bridge: An assessment utilizing filed vibration data and FE computations, Proceedings of the IABSE-JSCE Joint Conference on Advances in Bridge Engineering-III, August 21-22, 2015, Dhaka, Bangladesh, pp. 461-465. DOI: 10.13140/RG.2.1.1646.5122
9. Hasan, M.S., Okui, Y., Takai, H. & Amin, A.F.M.S. (2015). Responses from laminated rubber bearing under compression and rotation via FE analysis, Proceedings of the IABSE-JSCE Joint Conference on Advances in Bridge Engineering-III, August 21-22, 2015, Dhaka, Bangladesh, pp. 340-344. DOI: 10.13140/RG.2.1.4267.9522
10. Sobhan, M.A., Amin, A.F.M.S., (2010). Recent trend and futuristic vision of bridge development in Bangladesh, Country Paper, Proceedings of the IABSE-JSCE Joint Conference on Advances in Bridge Engineering-II, August 8-10, 2010, Dhaka, Bangladesh, pp. 3-11.
11. Bhuiyan, A.R., Nguyen, D.A., Okui, Y., Amin, A.F.M.S., (2010). Effect of modeling approaches on seismic response prediction of base isolated highway bridges, Proceedings of the IABSE-JSCE Joint Conference on Advances in Bridge Engineering-II, August 8-10, 2010, Dhaka, Bangladesh, pp. 326-335.
12. Maksud-Ul-Alam, M., Amin, A.F.M.S., (2010). Pedestrian induced vibrations in footbridges: Reappraisal of code provisions, Proceedings of the IABSE-JSCE Joint Conference on Advances in Bridge Engineering-II, August 8-10, 2010, Dhaka, Bangladesh, pp. 344-351.
13. Amanat, K.M., Amin, A.F.M.S., Hossain, T.R., Kabir, A., Rouf, M.A., (2010). Cracks in the box girders of Bangabandhu Jamuna Multipurpose Bridge-Identification of causes based on FE analysis, Proceedings of the IABSE-JSCE Joint Conference on Advances in Bridge Engineering-II, August 8-10, 2010, Dhaka, Bangladesh, pp. 451-460.
14. Bhuiyan, A.R., Okui, Y., Razzak, M.K., Amin, A.F.M.S., (2010). Earthquake resistant design of highway bridges using laminated rubber bearings: An approach for modeling hysteretic behavior based on experimental characterization of rheology properties, Proceedings, 3rd International Earthquake Symposium, Jointly organized by Bangladesh Earthquake Society (BES) and Bangladesh University of Engineering and Technology (BUET), Bangladesh, Dhaka, March 5-6, 2010, pp. 381-389.
15. Amin, A.F.M.S., and Lion, A., (2009). Temperature dependence of Mullins softening-healing phenomena: An outline for theoretical description based on experiments, In G. Heinrich, M. Kaliske, A. Lion & S. Reese (eds), Constitutive Models for Rubber VI, pp. 497-503. Balkema.
16. Lion, A., Amin, A.F.M.S., Okui, Y., (2007). Experimental investigation and constitutive modeling of high damping rubber, 11th International Seminar on Elastomers, "Kautschuk Gummi und Kunststoffe", Freiburg, Germany, September, 23 - 27, 2007.
17. Bhuiyan, A.R., Amin, A.F.M.S., Hossain, T., Okui, Y., (2007). Nonlinear viscosity law for rate-dependent response of high damping rubber: FE implementation and verification, Constitutive Models for Rubber V-Boukamel, Laiarinandrasana, Meo, Verron (eds), 2008, Taylor & Francis Group, London, ISBN 978-0-415-45442-1, pp. 274-284. Proceedings of 5th European Conference for Constitutive Models for Rubber, Paris, 4-7 September 2007.
18. Amin, A.F.M.S., Hossain, T.R., Habib, A. (2005). Vibration serviceability requirement in the design of arch-supported suspended footbridge, Proceedings of the Japan-Bangladesh Joint Seminar on Advances in Bridge Engineering, 10 August 2005, Dhaka, Bangladesh, pp. 13-22.
19. Amin, A.F.M.S., and Okui, Y. (2004). High damping rubber for base isolation bearings: mechanical behavior and constitutive modeling, Proceedings of the Conference on Filler Reinforcement of Rubber held in the Geological Society, London on 14 September 2004, pp 51-57. Organised by Rubber in Engineering Committee of the Institute of Materials, Minerals and Mining, London, UK.
20. Wiraguna, S.I., Yamada, K., Amin, A.F.M.S., and Okui, Y. (2003a). Behavior of high damping rubber in simple shear deformation, CD Proceedings of Temu Ilmiah XI, ISSN 0918-7685, pp. 41-46.
21. Wiraguna, S.I., Yamada, K., Amin, A.F.M.S., and Okui, Y. (2003b). Constitutive model for high damping rubber: experimental facts and mathematical modeling, CD Proceedings of the East Asia-Pacific Conference on Structural Engineering and Construction, Bali, Indonesia, 16-18 December 2003).
22. Amin, A.F.M.S., Alam, M.S. and Okui, Y. (2001). An Improved Hyperelasticity Relation For Modeling Strain Rate Dependency Of High Damping Rubber, CD Proceedings of 56th Annual Conference of Japan Society of Civil Engineers, Kyushu, Japan, October 2001.

23. Amin, A.F.M.S., Alam, M.S. and Okui, Y. (2001). Development of Rate Dependent Constitutive Model for Elastomers, Creative Systems in Structural and Construction Engineering, Singh ed., Balkema, Rotterdam, pp. 623-628.
24. Wadud, Z., Amin, A.F.M.S. and Ahmad, S. (2001). Voids in Coarse Aggregates: An Aspect Overlooked in the ACI Method of Concrete Mix Design, Creative Systems in Structural and Construction Engineering, Singh ed., Balkema, Rotterdam, pp. 423-428.
25. Amin, A.F.M.S., Alam, M.S. and Okui, Y. (2001). A Constitutive Model for Simulating Viscoelastic Response from High Damping Rubber, Proceedings of 3rd International Summer Symposium, JSCE, Tokyo, Japan, August 2001.
26. Amin, A.F.M.S., Alam, M.S. and Okui, Y. (2000). Hyperelasticity Modelling of High Damping Rubber and Finite Element Simulation, CD Proceedings of 55th Annual Conference of Japan Society of Civil Engineers, Sendai, Japan, September 2000, I-A8.
27. Alam, M.S., Takanezawa, S., Amin, A.F.M.S. and Okui, Y. (2000). Mechanical Behaviour of Elastomers Under Compression and Its Microstructure, CD Proceedings of 55th Annual Conference of Japan Society of Civil Engineers, Sendai, Japan, September 2000, I-A9.
28. Amin, A.F.M.S. and Ahmad, S. (1999). Thick Shell Finite Element in the Analysis of Helicoidal Star Slab, Civil and Environmental Engineering Conference (C&EEC) - New Frontiers and Challenges, 8-12 November 1999, AIT, Bangkok, Thailand, Vol. I, pp. 9-16.
29. Amin, A.F.M. S., Ahmad, S. and Wadud, Z. (1999). Effect of ACI Concrete Mix Design Parameters on Mix Proportion and Strength, Civil and Environmental Engineering Conference (C&EEC) - New Frontiers and Challenges, 8-12 November 1999, AIT, Bangkok, Thailand, Vol. III, pp. 97-106.
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