

Dr Syed Hassan Farooq

Professor & Structural Designer

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SUMMARY

Dedicated and accomplished professional with extensive experience as both a Professor of Structural Engineering and a Practicing Structural Designer. Skilled in teaching and mentoring students, developing curriculum, objective based assessment and innovative research. As a structural designer, proficient in ABAQUS, SAP2000, ETABS, SAFE, Revit, AutoCad, Perform 3D software and highly experienced in overseeing projects from conceptual design to completion. Performed Analysis & Design of Marine Structures, Tunnels, Impact Loading, Hardened Facilities, Efficient Energy Dissipation, Improving Material Properties and Strengthening/Retrofitting of Structures. Recognized for the ability to bridge academic and industry perspectives.

WORK EXPERIENCE

Postdoctoral Research Associate College of Engineering and Architecture, Howard University	09/2026-todate
Research Associate College of Engineering and Computing, George Mason University	11/2025 - 05/2026
Professor / Head of Department (Structure) National University of Science & Technology (NUST)	07/2024 -10/2025
Director Design (Civil Engineering) Consultancy Directorate (Engineering Branch), SPD	12/2021 - 07/2024
Head of Civil Engineering Department National University of Technology (NUTech)	01/2018 – 12/2021
Head of Department (Structure) National University of Science & Technology (NUST)	09/2010 – 01/2018
Construction Project Manager / Designer Corps of Engineers, Pakistan Army	10/1993 – 09/2010
Structural Designer (Remote) H&A Consultants	01/2010 – 10/2025

EDUCATION

Ph.D Civil Engineering (Structure) Seismic Retrofitting/Strengthening of Structure University of Engineering & Technology	Aug 2010
MS Structural Engineering Seismic Performance of Strengthened Masonry Structures University of Engineering & Technology	May 2006
BE Civil Engineering Structure, Transportation and Geotechnical Engineering Military College of Engineering, NUST Risalpur Campus	Oct 1993
Post-Doc Disaster Risk Management	Dec 2013

Professional Skills

- Higher Education Teaching/Research
- University Lecturing
- Accreditation and Quality Assurance
- Program Evaluation and Auditing
- Curriculum design and assessment
- Analysis on Software ABAQUS/Perform3D
- Design on Software SAP200/ETABS/SAFE/Revit/AutoCad
- Retrofitting/Strengthening of structures
- Damage assessment and evaluation
- Analysis of underground hardened structures under impact loading
- Analysis of on-shore marine structures

TEACHING EXPERIENCE

Undergraduate Level

Mechanics of Solid
Structural Analysis 1
Structural Analysis 2
Structural Analysis 3
Earthquake Engineering
Design of Conc Structure
Plain Reinforced Concrete 1
Plain Reinforced Concrete 2
Engineering Mechanics

Postgraduate Level

Finite Element Method
Structural Dynamics
Advanced Structural Mechanics
Matrix Structural Analysis
Advanced Concrete Design
Design of Masonry Structures
Seismic Design of Rfd Conc Struc
Advanced Structural Analysis
Damage Evaluation&Retrofitting Str

Supervision experience

UG FYP Gps: 34
MS Research students: 97
PhD Students: 3

RESEARCH INTERESTS

3D concrete printing, Impact loading, On shore marine structures, Penetrator projectiles, Seismic strengthening/retrofitting, Water sloshing, Nanoparticles, Structural health monitoring, Structural dynamics, Structural Control, Base Isolation, MR elastomers, MR dampers, and Structural mechanics

RESEARCH PROFILE OVERVIEW

Publications:

49+ Journal Papers
(Incl 28+ ISI Indexed)
8 Intl./national conf. papers
Comm. IF:100+, Citations: 1790
H-Index: 20, I10-index: 38

Editorial Memberships:

Academic Editor of Journal "PLOS ONE" IF 3.752
Academic Editor of Journal "Advances in Civil Engineering" IF 1.843
Academic Editor of Journal "Societal Impacts (Elsevier)"
Managing Editor & Section Editor (Civil Engineering) of Journal "NUST Journal of Engineering Sciences" published by NUST
Guest Editor of Journal "International Journal of Distributed Sensor Networks" IF 1.938
Topic Editor of Journal "Eng" published by MDPI Switzerland
Guest Editor of the Journal "Smart Cities" published by MDPI Switzerland, for a special issue titled "Sustainable Smart Construction Materials"

FUNDED RESEARCH PROJECTS (Undertaken/Ongoing)

Project Title: "Research on Disaster Risk Intelligent Prediction and Resilience Enhancement Technology for Power Infrastructure in High Earthquake Intensity Area" – **SCO-PSF, Total Funding: PKR 15 Million Project Duration/Status:** 02 Year/ **Ongoing**

Project Title: “Feasibility study of Smart MRE based base isolation system for large scale application in civil engineering structures” - **HEC-NRPU, Total Funding:** PKR 11.699 Million **Project Duration/Status:** 03 Years/ **Ongoing**

Project Title: “Development of a sustainable 3D printer”- **NUST Research Fund, Total Funding:** PKR 1.0 Million
Project Duration/Status: 01 Year/ **Ongoing**

Project Title: “Development of 3D Concrete Printer” – **MoPDSI-GoP Total Funding:** PKR 20 Million
Project Duration/Status: 02 Year/ **Ongoing**

Project Title: Organization of International Seminar& Workshop on “Design of Tall Buildings: Trends and Advancements for Structural Performance”, Held at NUST, Islamabad, 24th-25th April 2017”
Total Funding: PKR1.323 Million

Project Title: Organization of International Seminar& Workshop on “Seismic Performance and Health Assessment of Structures”, Held at NUST, Islamabad, 18th-19th September 2018”
Total Funding: PKR 1.439 Million

1 x Project submitted to Higher Education Commission (HEC) Pakistan under SRGP as Principal Investigator (0.5 Million PKR)

4 x Projects submitted to Pakistan Science Foundation (PSF) Pakistan as PI/Co-PI (Approx 15 Million PKR)

5 x Projects submitted to Higher Education Commission (HEC) Pakistan under NRPU as PI/Co-PI (All 10+ Million PKR)

ACADEMIC AWARD

Frederick Palmer Prize 2020 for best Research Paper, “Effect of soil-structure interaction on a masonry structure under train induced vibrations”

Research Projects

- Analysis of impact resistant structures on ABAQUS
 - Analysis of tunnels on ABAQUS
 - Analysis and validation of Marine structures using ABAQUS
 - Structural reliability Analysis of existing highway bridges along CPEC
 - Assessment of dynamic response of Structure under ML-1 Railway traffic vibrations
 - Enhancing Lateral Load Performance of Traditional Timber Wall (Dhajji-Dewari)
 - Development of Self-Compacting Cementitious Systems Incorporating natural waste
 - Use of coconut fiber in high strength concrete for improving ductility
 - Seismic vulnerability assessment of existing frame structures using IDA
 - Investigation of Adequacy of existing Highway Bridge Design Loads
 - Investigation of Flexural/Shear properties of concrete filled double skin tubular Beams
 - Development and Application of tuned liquid column ball damper (TLCBD)
 - Progressive structural capacity loss assessment framework
 - Study of Seismic In-Plane Performance of Masonry structures
 - Study Response of masonry structures Strengthened with CFRP and Steel Strips
 - Investigation of Impact Loading Response of Reinforced Concrete Panel
 - Design of Light Weight short span assault bridges
 - Seismic Vulnerability Assessment of School Buildings in Seismic Zone-4 Pakistan
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Design Experience

- Analysis, design and validation of Marine structures
- Design and vetting of tunnels against impact load
- Design and vetting of underground structures

- Analysis and design of impact resistant structures
- Design and vetting of hardened underground facilities
- Strengthening of structurally deficient structures
- Retrofitting of damaged structures
- Design of 27 Storey Tower B-17 Islamabad
- Damage assessment and Retrofit design of Bridge on Lahore Sialkot Motorway
- Design of Combined Military Hospital Cherat
- Damage assessment & Retrofit design of ATC tower, and Account building at Mushaf Base

Research Publications

- Muhammad Usman Hasan Jalali, Badee Alshameri, Muhammad Hamza Khalid, Waqas Hassan, Lokmane Abdeldjouad, S Muhammad Jamil, Hassan Farooq, Zain Maqsood (2025), "Data-driven approach to enhance deep foundation safety: reliable methods for predicting bored pile capacity", International Journal of Geo-Engineering, pp-16, vol-16 (IF-7.2 – Q1)
- Muhammad Usman, Mahmood Hussain, Arslan Mushtaq, Syed H Farooq, Atif Mehmood, Asad Hanif (2024), "Thermal Performance Assessment of Concrete Walls Using Different Phase Change Materials", Advances in Civil Engineering, PP.1-24, Vol. 10:1080, (IF-1.92 - Q2)
- Kashan Nisar, Muhammad Shahid Siddique, Muhammad Rizwan, Syed Hassan Farooq, Muhammad Usman & Asad Hanif (2023), "Effect of multiwalled carbon nanotubes on compressive behavior of concrete at elevated temperature for mass concreting", European Journal of Environmental and Civil Engineering, PP.1-24, Vol. 10:1080, <https://doi.org/10.1080/19648189.2023.2194957> (IF-2.187 - Q2)
- Mati Ullah Shah, Syed Waiz Shah, Syed Hassan Farooq, Muhammad Usman, Farhan Ullah (2023), "Experimental investigation of tuned liquid column ball damper's position on vibration control of structure using different fluids", Innovative Infrastructure Solution Journal, PP.1-15, Vol. 8:111, <https://doi.org/10.1007/s41062-023-01080-2> (IF-0.85 - Q3)
- Mati Ullah Shah, Muhammad Usman, Syed Hassan Farooq, Muhammad Rizwan (2022), "Spring-controlled modified tuned liquid column ball damper for vibration mitigation of structures", Journal of Sound and Vibration, PP.1-24, Vol. 545, <https://doi.org/10.1016/j.jsv.2022.117443> (IF-4.76 - Q1)
- Muhammad AsharUI Aleem, Muhammad Shahid Siddique, Syed HassanFarooq, MuhammadUsman, Muhammad Hamza Ahsan, ManzoorHussain, AsadHanif (2022), "Axial compressive behavior of concrete incorporating crumb rubber pretreated with waste quarry dust", Journal of Building Engineers, PP.1-16, Vol. 53, <https://doi.org/10.1016/j.jobe.2022.105086> (IF-7.14 - Q1)
- Muhammad Hamza Ahsan, Muhammad Shahid Siddique, Syed Hassan Farooq, Muhammad Usman, Muhammad Ashar UI Aleem, Manzoor Hussain, Asad Hanif, (2022), "Mechanical behavior of high-strength concrete incorporating seashell powder at elevated temperatures", Journal of Building Engineers, PP.1-15, Vol. 50, <https://doi.org/10.1016/j.jobe.2022.104226> (IF-7.14 - Q1)
- Mati Ullah Shah, Muhammad Usman, Syed Hassan Farooq and In-Ho Kim, (2022), "Effect of Tuned Spring on Vibration Control Performance of Modified Liquid Column Ball Damper", Applied Sciences-BASEL, PP.1-22, Vol. 12, MPDI (IF-2.679 - Q2)
- Muhammad Zain, Muhammad Usman, Syed Hassan Farooq (2021), "A Framework with reduced computational burden for Seismic Fragility Assessment of Reinforced Concrete Buildings in High-Intensity Seismic Zones", Structures, PP.3055-3065, Vol. 33, Elsevier (IF-4.01 - Q1)
- Muhammad Ahsan Tariq, Muhammad Usman, Syed Hassan Farooq, Imran Ullah and Asad Hanif (2021), "Investigation of the Structural Response of the MRE-Based MDOF Isolated Structures

under Historic Near and Far-Fault Earthquake Loading”, Applied Sciences-BASEL, PP.1-21, Vol. 11, MPDI (IF-2.679 - Q2)

- Najeeb Ullah, Muhammad Usman, Syed H. Farooq, Wahab Ashraf, Asad Hanif (2021), “Effect of Steel and Concrete Thickness on Shear Strength of Square Concrete Filled Double Skin Tubular Beams, Case Studies in Construction Materials, PP.1-11, Vol. 14, Elsevier (IF-4.94 - Q1)
- Muhammad Waleed Khan, Muhammad Usman, Syed Hassan Farooq, Muhammad Zain, Sajid Saleem (2021), “Effect of masonry Infill on analytical fragility response of RC frame school buildings in high seismic zone”, Journal of Structural Integrity and maintenance, vol. 6, no. 02, pp 110-122, <https://doi.org/10.1080/24705314.2020.1865624>, Taylor & Francis (IF-0.4 – Q3)
- Wahab Ashraf, Muhammad Usman, Syed Hassan Farooq, Najeeb Ullah, sajid Saleem (2020), “Flexural properties of concrete filled double skin (SHS outer and SHS inner) tubular Beams”, Proceedings of The Institution of Civil Engineers-Structures and Buildings , vol. 1, pp. 1-13 (IF-1.171 – Q2)
- Waqas Ahmad, Syed Hassan Farooq, Muhammad Usman, Mehran Khan (2020), “Effect of Coconut Fiber Length and Content on Properties of High Strength Concrete”, Materials, vol. 13, no. 1075, pp. 1-22 (IF-3.623 – Q1)
- Bilal Lal Khan, Hassan Farooq, Muhammad Usman, Faheem Butt, Abdul Qudos Khan & Asad Hanif (2018), “Effect of Soil Structure Interaction on a Masonry Structure under Train Induced Vibration,” Proceedings of The Institution of Civil Engineers-Structures and Buildings, vol. 3, no. 3, pp. 197–207. (IF-1.171 – Q2)
- Muhammad Zain, Muhammad Usman, Syed Hassan Farooq, and Tahir Mehmood, (2019), “Seismic Vulnerability Assessment of School Buildings in Seismic Zone 4 of Pakistan”, Advances in Civil Engineering, Volume 2019, Article ID 5808256, PP. 1-14 (IF-1.924 – Q3)
- Muhammad Usman, Syed Hassan Farooq, Muhammad Umair, Asad Hanif (2019), “Axial Compressive Behavior of Confined steel Fibers reinforced high strength concrete”, Construction and Building Materials, vol. 230,pp. 117043. (IF-6.141 –Q1)
- Muhammad Ammad Hassan, Muhammad Usman, Asad Hanif, Syed Hassan Farooq, Jamil Ahmed (2019), “Improving structural performance of timber wall panels by inexpensive FRP retrofitting techniques”, Journal of Building Engineering, Vol. 27:101004 (IF-7.14 – Q1)
- Muhammad Tanveer, Muhammad Usman, Imdad U Khan, Syed H Farooq, Asad Hanif (2020), “Material optimization of tuned liquid column ball damper (TLCBD) for the vibration control of multi-storey structure using various liquid and ball densities”, Journal of Building Engineering, JOBE 101742, <https://doi.org/10.1016/j.job.2020.101742> (IF-7.14 – Q1)
- Muhammad Tanveer, Muhammad Usman, Imdad Ullah Khan, Shakil Ahmad, Asad Hanif, Syed Hassan Farooq (2019), “Application of tuned liquid column ball damper (TLCBD) for improved vibration control performance of multi-storey structure”, PLOS ONE, vol. 1, pp. 1-15. (IF-2.24 – Q1)
- Muhammad Zain, Muhammad Usman, Syed H. Farooq, Asad Hanif (2018), “Progressive structural capacity loss assessment—A framework for modern reinforced concrete buildings,” PLOS ONE Journal, vol. 1, pp. 1-14. (IF-2.24 – Q1)
- Abdur Rasheed, Syed H. Farooq, Muhammad Usman, Asad Hanif, Noman A.Khan & Rao A. Khushnood (2018), “Structural reliability analysis of superstructure of highway bridges on China-Pakistan Economic Corridor (CPEC): a case study,” Journal of Structural Integrity and Maintenance, vol. 3, no. 3, pp. 197–207. (IF-0.4 – Q2)
- Muhammad Usman, Asfand Y. Khan, Syed H. Farooq, Asad Hanif, Shengwen Tang, Rao A. Khushnood, Syed A. Rizwan, (2018), “Eco-friendly self-compacting cement pastes incorporating

wood waste as cement replacement: A feasibility study”, Journal of Cleaner Production, ELSEVIER, Vol. 190, pp. 679-688. (IF-9.297 – Q1)

- I. Shahid, A.K. Noman, S. H. Farooq A. Arshad (2017), “Investigation of the adequacy of Bridge Design Loads in Pakistan”, Indonesian Journal of Science and Technology, Vol. 4, No. 2, pp. 171-187 (IF-1.67 – Q3)
- S. H. Farooq, M Elgwady and M. Ilyas (2014), “Seismic In-Plane Performance of Retrofitted Masonry”, KSCE Journal of Civil Engineering, SPRINGER, Vol. 1, No. 8, pp 622-637, Korea. (IF-1.805 – Q2)
- M. N. A. Metla, R. U. Khan and S. H. Farooq (2014), “Activation of Ground Granulated Blast Furnace Slag by Alkalies in Self-Consolidating Concrete”, Life Science Journal - Acta Zhengzhou University, Vol. 11, No. 12, pp 94-98, Zhengzhou University, China. (IF- 0.165 – Q3)
- S. H. Farooq, Shahid and M. Ilyas (2014), “Seismic In-Plane Performance of Strengthened Masonry Panels”, KSCE Journal of Civil Engineering, SPRINGER, Vol. 1, No. 8, pp 622-637, Korea. (IF-1.805 – Q2)
- S. H. Farooq, M. Ilyas and S. Amir (2012), “Response of Walls Strengthened with CFRP and Steel Strips”, Arabian Journal for Science and Engineering, SPRINGER, Vol. 37, pp 549-559, Saudi Arabia. (IF-2.334 – Q2)
- S. H. Farooq, M. Ilyas and A. Ghaffar (2006), “Technique of Strengthening Masonry Wall Panels using Steel Strips”, Asian Journal OF Civil Engineering (Building and Housing), Vol. 7, No. 6, pp 625-642, Tehran, Iran. (IF-0.6 – Q3)
- Ahmad, J.; Usman, M.; Hassan, M. A.; Farooq, S. H.; Hanif, A. (2018), “Enhancing Lateral Load Performance of Traditional Timber Wall (Dhajji-Dewari) by Strengthening of Joints”, IOP Conference Series: Materials Science and Engineering 2018, 431, 072002 (ISI Indexed)
- Rasheed, A.; Usman, M; Farooq, H.; Hanif, A. (2018), “Effect of Super-Plasticizer Dosages on Fresh State Properties and Early-Age Strength of Concrete”, IOP Conference Series: Materials Science and Engineering 2018, 431, 062010. (ISI Indexed)
- H. Farooq, M. Usman, K. Mehmood, M. S. Malik, A. Hanif (2018), “Effect of Steel Confinement on Axially Loaded Short Concrete Columns,” IOP Conference Series: Materials Science and Engineering, vol. 414, 012026 (ISI Indexed)
- Khan, B.L.; Azeem, M.; Usman, M.; Farooq,S.H.; Hanif, A.; Fawad, M. (2019), “Effect of near and far field earthquakes on performance of various base isolation systems”, Procedia Structural Integrity 2019,18, 108-118. (ISI Indexed)
- Usman Ilyas, S. H. Farooq, I. Shahid and M. Ilyas (2015), “Progressive Collapse of Reinforced Concrete Frame Structures under Column Damage Consideration”, Pakistan Journal of Engineering and Applied Sciences, Vol. 16, pp 61-66, UET Lahore, Pakistan.
- S. H. Farooq, M. Ilyas and A. Ghaffar (2008), “Effect of Horizontal Reinforcement in Strengthening of Masonry Members”, Mehran University Research Journal of Engineering and Technology, Vol. 27, No.16, pp 49-62, Mehran University, Pakistan.
- M. Ilyas S. H. Farooq and A. U. Qazi and R. Umair (2009), “Masonry Confinement using Steel Strips”, Pakistan Journal of Engineering and Applied Sciences, Vol. 05, pp 1-9, UET Lahore, Pakistan.
- S. H. Farooq, M. Ilyas and A. Qazi (2011), “Effect of Axial Pre-Compression on Lateral Performance of Masonry under Cyclic Loading”, Mehran University Research Journal of Engineering and Technology, Vol. 30, pp 559-576, Mehran University, Pakistan.
- S. H. Farooq, M. Ilyas and M. Rizwan (2012), “Push over Analysis of steel strengthened Masonry”, Pakistan Journal of Engineering and Applied Sciences, Vol. 10, pp 36-44, UET Lahore,

Pakistan.

- O. Inderyas, U. Ilyas, S.H. Farooq, A. Ajwad and N. Khadim (2019), "Seismic Damage Assessment and Retrofitting of Hybrid Structure", *The Nucleus Journal*, Vol. 56, No. 4, pp. 143-151
- U. Ilyas, S. H. Farooq, A. U. Qazi and M. Ilyas (2017), "Progressive Collapse of RC Frame Under Different Levels of Damage Scenarios", *The Nucleus Journal*, Vol. 54, No. 4, pp. 232-241
- I. Shahid, A.K. Noman, S. H. Farooq, A. Arshad (2017), "Extrapolation of Live Load Effects to 75 Years Return Period for Highway Bridges", *Journal of Environmental Treatment Technique*, , Vol. 5, No. 4, pp. 132-140, ISSN: 2309-1185
- Rizwan Khan, Syed Hassan Farooq and Muhammad Usman (2019), 'Blast Loading Response of Reinforced Concrete Panels Externally Reinforced with Steel Strips', *Journal of Infrastructures*, vol. 4, No. 54, pp. 1-16 (Scopus)
- I. Shahid, S. H. Farooq, K. R. Kayani and Hina Mumtaz (2015), "Effective Concrete Strength within Slab-Column Joint", *International Journal of Engineering and Technology*, Vol. 7, No. 3, pp 965-972. (Scopus)
- Nadeem, S. H. Farooq, and Jamil (2015), "Laboratory Evaluation of durability of open-graded friction course mixtures", *International Journal of Engineering and Technology*, Vol. 7, No. 3, pp 956-964. (Scopus)
- M. Iqbal, I. Shahid, and S. H. Farooq, (2014), "Behavior of Polymer Strengthened Plain Concrete", *International Journal of Engineering and Advanced Technology*, Vol. 3, No. 5, pp 625-642. (Scopus)
- Shahid, S. H. Farooq, S. Maqbool, and S. Haseeb (2014), "Structural Fire Safety Measures in Developing Countries: Pakistan - A Case Study", *International Journal of Engineering and Advanced Technology*, Vol. 4, No. 1, pp 611-629. (Scopus)
- S. Mustafa, I. Shahid and S. H. Farooq (2015), "Identification and Prioritization of CSFS and Perception of the Stake Holders for Fast Track Construction Projects in Pakistan", *Civil and Environmental Research Journal*, IISTE, Vol. 7, No. 4, pp 62-72.
- A. Zarmina, S. H. Farooq and S. Naeem (2014), "Flood Management System in Pakistan", *European Scientific Journal*, Vol. 2, pp. 116-120, Azores University.
- A. Zarmina, S. Naeem, S. H. Farooq (2014), "An Analysis of the Emergency Services and Response in Pakistan", *Journal of International Scientific Publications*, Vol. 12, pp. 490-494, Azores University.
- I. Shahid, S. H. Farooq, A.K. Noman, A. Arshad (2017), "Comparison of Live Load Effects for the Design of Bridges", *Journal of Environmental Treatment Technique*, , Vol. 5, No. 2, pp. 85-96, ISSN: 2309-1185
- M. Ilyas, M. Rizwan and S. H. Farooq (2005), "Ground Failure and Structural Damages during Recent Earthquakes in Northern Areas of Pakistan", *Proceeding of First National Seminar on Geotechnical Aspects of Hydropower Projects*, pp 140-160, UET Lahore, Pakistan.
- M. Ilyas S. H. Farooq (2005), "Collapse of a Building due to percolation of water from rooftop in old Lahore", *Proceeding of the seventh International symposium*, pp 41-44, Tokyo, Japan
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- M. Ashraf, M. Ilyas and S. H. Farooq (2006), "A Case Study: Hazara University Damaged by Recent Earthquake", *Proceeding of The International Conference on Earthquake Engg (ICEE)*, pp 139-150, UET Lahore, Pakistan.

- S. H. Farooq, M. Ilyas (2006), "A study on failure pattern observed in masonry buildings during 8th October Hazara Kashmir Earthquake in Pakistan", Proceeding of the International Congress on Civil Engineering, ICCE 7th, pp 139-150, Tehran, Iran
- M. Ilyas and S. H. Farooq (2006), "Performance of Masonry Structures during 8th October 2005 Kashmir-Hazara Earthquake in Pakistan", Proceeding of 70th, Pakistan Engineering Congress, Symposium on Urban Development With Focus on Housing, pp 103-108, PEC, Pakistan.