

Curriculum Vitae (CV)

Ahmed Mahmoud Azmy



Personal Information:

Academic Rank: Professor (full)

Department: Civil Engineering

Specialization: Structural Analysis

Position: Dean

Google Scholar: <https://scholar.google.com/citations?hl=ar&user=K-ThVOUAAAAJ>

Research Gate: <https://www.researchgate.net/profile/Ahmed-Azmy-4>

ORCID Record: <https://orcid.org/0000-0003-3602-1914>

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Education:

Degree	Discipline	Institution	Year
Ph.D.	Civil Engineering	University of Maryland, College park, Maryland, USA	1991
M.Sc.	Civil Engineering	University of Maryland, College park, Maryland, USA	1987
B.Sc.	Civil Engineering	King Abdel-Aziz University, Jeddah, K.S.A.	1982

Academic Experience:

Institution: HTI

Rank: Professor

Dates: 2010

Institution: HTI

Rank: Associate Professor

Dates: 2001

Institution: HTI

Rank: Assistant Professor

Dates: 1991

Institution: Maryland University

Rank: Research Assistant (PhD student)

Dates: 1988

Institution: Maryland University

Rank: Teaching Assistant

Dates: 1986

Research interests:

- - Structural Analysis
- - Structural Design Optimization

Publications:

- - Ahmed Azmy (1987). "Redundancy and Reliability of prestressed Trusses, "Master's Thesis, University of Maryland.
- - Ayyub, Bilal M., and Ahmed Azmy (1988) "Reliability-Based Design of prestressed Truss Bridges, "Symposium on Reliability-Based Design in Civil Engineering, Lausanne, Switzerland, Sponsored by : Swiss Federal Institute of Technology, Department of Civil Engineering.
- - Ayyub, Bilal M., and Ahmed Azmy (1988) "Reliability and Redundancy Assessment of prestressed Truss Bridges," Symposium on Bridge Research in progress, Des Moines, Iowa , Sponsored by: The National Science Foundation.
- - Ayyub, Bilal M., and Ahmed Azmy (1989) Poster Session "Post-Tensioned Steel Bridges," 1989 National Steel Construction Conference, Nashville, Tennessee, Sponsored by: The American Institute of Steel Construction.
- - Ayyub, Bilal M., and Ahmed Azmy (1989) "Reliability and Redundancy Assessment of prestressed Truss Bridges," 5th International Conference on Structural Safety and Reliability, San Francisco, California, Sponsored by : International Association for Structural Safety and Reliability.
- - Ayyub, Bilal M., and Ahmed Azmy and Schelling, David (1990). "Post-Tensioned Trusses : Analysis and Design," J. Structural Eng., ASCE,116 (6).
- - Ayyub, Bilal M., and Ahmed Azmy (1990). "Post-Tensioned Trusses : Reliability and Redundancy," J. Structural Eng., ASCE,116 (6).
- - Ahmed Azmy and Ayyub, Bilal M. (1990). "Modeling Judgment Uncertainty in Inspection of Industrial Facilities," The First International Symposium on Uncertainty Modeling and Analysis. Proceedings of ISUMA'90 University of Maryland, College Park, Maryland, USA. December 3-5.
- - B. M. Ayyub and Ahmed Azmy (1991). "Risk-Based Inspection -Development of Guidelines," Vol. 1 General Document, CRTD-Vol. 20-1, ASME.

- - Ahmed Azmy (1991). "A Risk-Based Inspection Methodology for Structural Systems," Ph.D. Dissertation, University of Maryland.
- - Ahmed Azmy and B M. Ayyub, (1992) "Uncertainty in risk-based inspection of complex systems," in : B M. Ayyub, M.M. Gupta and L.N. Kanal, eds, Analysis And Management of Uncertainty : Theory and Applications, North-holland, Amsterdam.
- - Ahmed Azmy (1993). "Risk-based Ranking in inspection of facilities," Al-Azhar Engineering Third International Conference.
- - Ahmed Azmy (1994). "Multi-criteria ranking of components according to their priority for inspection," The First International Conference on Operations Research and its Applications.
- - Ahmed Azmy and M. Eid, (1999). "Cost-optimum Design for Shear Reinforced Concrete Beams," ACI, Structural Journal Vol. 96 No. 1
- - Ahmed Azmy and M. Eid, (1999). "Cost-optimum Design of Reinforced Concrete Beams based on Strength & Ductility & Serviceability Requirements and Practical Consideration," Journal of Engineering and Applied Science, Vol. 46, No. 3
- - Ahmed Azmy and M. Eid, (2000). "Minimum Cost for Complete Design of Reinforced Concrete Beams based on ACI Requirements and Architectural Considerations," Journal of Engineering and Applied Science, Vol. 47, No. 3
- - Ahmed Azmy (2001). "Exact & Simplified analysis of Pin-Ended Girder," Civil Engineering Research Magazine, Vol. 23, No. 1
- - Ahmed Azmy (2001). "Flexibility and Stiffness of Non-Prismatic Member," Civil Engineering Research Magazine, Vol. 23, No. 1
- - Ahmed Azmy and M. Eid (2001). "Multi-Criteria Optimum Design Based for Reinforced Concrete Isolated Footing," International Conference on Multiple Criteria Decision Making, HTI, 10th of Ramadan City
- - Ahmed Azmy (2002). "Steel Structure Design and Optimization," Civil Engineering Research Magazine, Vol. 24, No. 2
- - Ahmed Azmy (2002). "Closed Form Analysis of Two-Span Continuous Girders Subjected to Concentrated Loads," Civil Engineering Research Magazine, Vol. 24, No. 3
- - Ahmed Azmy (2002). "Optimization of Concrete Structures," Civil Engineering Research Magazine, Vol. 24, No. 4
- - Ahmed Azmy and Esam Khalifa (2005). "An experimental Study on Strengthening of High-Strength Reinforced Concrete Columns Using Contacted and Non-Contacted Steel Jacket," Civil Engineering Research Magazine, Vol. 27, No. 1

- - Ahmed Azmy and Mohamed Elmetwally (2006). "Investigation of the Effectiveness of Full and Partial Jacketing for Reinforced Concrete Columns," Civil Engineering Research Magazine, Vol. 28, No. 3
- - Hossam E.M. Sallam, Ahmed Azmy, Amr S. Sherbini, and Mohamed I. El-Barbary (2007). "Effect of Volume Fraction of Fine Aggregate on the Mechanical Properties and Impact Resistance of HSC and FRC," Al-Azhar Engineering Ninth International Conference, April 12-14.
- - M. Alshihri, Ahmed Azmy and Mousa S. El-Bisy (2007). "Application of Neural Networks in the Prediction of Compressive Strength of High Strength Concrete," Civil Engineering Research Magazine, Vol. 29, No. 2
- - Sallam, Hossam E.M., Ahmed Azmy and Sayed, Saad A.A (2007). "Failure Analysis of Polyester Matrix Composite Under Static and Cyclic Loadings," 9th Arab International Conference on Polymer Science & Technology, November 18-22.
- - M. Alshihri, Ahmed Azmy and Ibrahim S. El-Bisy (2007). "Stability and Collapse Analysis of Braced Domes," Civil Engineering Research Magazine, Vol. 29, No. 3
- - Ahmed Azmy, A. A. Tharwat, B. S. Nofal (2008). " A Closed Form Solution for Optimum Cost Design of Short Tied Reinforced Concrete Columns Subjected to Axially Concentrated Load," Civil Eng. Research Magazine Vol. 30, No. 3
- - Marai M. Alshihri, Ahmed Azmy and Mousa S. El-Bisy (2009). " Neural Networks for Predicting Compressive Strength of Structural Light Weight Concrete," ScienceDirect, Elsevier Editorial System(tm) for Construction and Building Materials 23
- - Ramy Moustafa, Ahmed Azmy, Hosam Sallam and Said Elkholy (2010). "Assessment of mode II fracture toughness of concrete containing waste materials " Ain Shams Journal of Civil Engineering Vol. 2
- - Ramy Moustafa, Ahmed Azmy, Hosam Sallam and Said Elkholy (2010). "Analysis of mixed mode fracture in concrete " 12th International Conference on Non-conventional Materials and Technologies "Materials & Technologies for Sustainable Infrastructure Systems" (IC-NOCMAT 2010) HBRC
- - Rasha El Gohary, Ahmed Azmy (2012). "Water Projects and New Methodology for Managing Non-Conventional Water Sources in Egypt" Exceed Regional Expert Workshop on Water Losses Management in Water Supply Systems - Antalya, Turkey
- - Rasha El Gohary, Ahmed Azmy (2013). "In-Stream Wetland as a Low Cost Wastewater Treatment Technique" International Symposium on Emerging Pollutants in water resources used for irrigation, their origins, fate, potential risks and tools for mitigation held in Hammamat, November 25-28, Tunis

- - Ahmed Azmy (2014). "Implementation of Sustainable Water Management Curriculum at Private Engineering Institutes - a case study from Egypt" Regional Expert Workshop on: Implementation of Sustainable Water Management Curriculum at University Level in Africa. May 26th – June 1st, 2014 / Ouagadougou, Burkina Faso
- - El Kholy S.A., Azmy A.M. , Al-tersawy S.H, Eldeeb M.M (2015) "Effect of different CFRP wrapping schemes on the properties of concentric short reinforced square columns "Civil Engineering Research Magazine, Vol. 37 , No. 2
- - Ahmed Azmy (2017) 'Environmental and Sustainable Guidelines for Integrated Municipal Solid Waste Management in Egypt' International Conference 2017 On Advanced Technology in Waste Water and Waste Management for Extractive Industries. October 23-24, 2017 / Nusa Dua, Bali – Indonesia

Certifications or Professional Registrations:

- - Symposium on Reliability Based Design in Civil Eng. In Switzerland, 1988
- - Symposium on Bridge Research in progress, in USA, 1989
- - National Steel Construction Conference, In USA, 1989
- - International Conference on Structural Safety and Reliability, in USA, 1989
- - International Symposium on Uncertainty Modeling and Analysis, USA, 1990
- - Al-Azhar Engineering Third International Conference, Cairo, 1993
- - International Conference on Operation Research and its applications, Cairo, 1994
- - International Conference on M C D M. HTI - Cairo, 2001
- - 4th International Conference on Civil and Architecture Engineering, Military Technical College – Cairo, 2002
- - 10th International Colloquium on Structural and Geotechnical Engineering, Ain Shams University - Cairo, 2003
- - Al-Azhar 7th international conference – Cairo, 2003
- - 38th Conference on Statistics & Computer Science and Operations Research, Cairo, 2003
- - International Conference on Parametric Optimization and Related Topics, HTI - Cairo, 2005
- - Al-Azhar Engineering Ninth International Conference, Cairo, 2007
- - 9th Arab International Conference on Polymer Science & Technology, Cairo, 2007

- - Expert Seminar on Sustainable Flood Risk Analysis and Management 19. – 30. September 2011, Bahir Dar /Ethiopia
- - Workshop on Water Footprint and Transboundary Water in Middle East Countries, Mansoura, Egypt, April 13-17, 2012
- - Exceed Regional Expert Workshop on Water Losses Management in Water Supply Systems held in Antalya, Turkey, September 25-29, 2012
- - International Symposium on Emerging Pollutants in water resources used for irrigation, their origins, fate, potential risks and tools for mitigation held in Tunis, November 25-28, 2013
- - The international Conference in Water and Energy in the Nile Basin, Possibility of Integration and Development, February 26-27, 2014, Cairo/Egypt
- - Regional Expert Workshop on: Implementation of Sustainable Water Management Curriculum at University Level in Africa. May 26th – June 1st, 2014 / Ouagadougou, Burkina Faso
- - The 3rd International Conference on Rainwater Catchment Systems which will be held in Birjand (Iran) on 18-19 February, 2015
- - International Conference 2017 on Advanced Technology in Waste Water and Waste Management for Extractive Industries. October 23-24, 2017 / Nusa Dua, Bali – Indonesia
- - Member of the Syndicate of Engineers
- - Member of the ASCE
- - Member of the ACI
- - Member of the Local organization committee of the First International Symposium on Uncertainty Modeling and Analysis, ISUMA' 90
- - Co-Chairs of the Technical program of ISUMA' 90
- - Member of the organization committee of the First International Conference on Operations Research and its Applications
- - Member of the Civil Engineering proposal Implementing Monitoring Committee for Engineering Education Development project
- - Member of the Egyptian Concrete Society
- - Member of the Engineering Committee of El-Zohour Club
- - Member of the Association for the Development of New Urban Communities
- - Editor and Member of the local organization committee of the International Conference on Parametric Optimization and Related Topics
- - Reviewer of the American Concrete Institute ACI
- - Supervisor of field training
- - Chairman of student union committee

- - Member of the HTI higher committee for educational quality assurance
- - Supervisor of graduate projects
- - Co-Chair persons of the Plenary Session of EMPOWER Tunisia 2013
- - Supervisor for civil engineering laboratories

Honors and Awards:

- - Scholarship from Maryland University to fulfill Master Degree;
- - First Award from BEST-Center, USA for Bridge Construction;
- - Scholarship from Maryland University to fulfill Doctoral Degree;
- - Scholarship from CDG, Germany to fulfill Eng. Management Diploma.

Teaching Experience:

Courses taught

- - Strength of Materials;
- - Mechanics for Civil Engineering;
- - Structural Analysis (5 Levels);
- - Computer Programming;
- - Auto-Cad Applications;
- - Modern Techniques for Structural Analysis;
- - Computer Applications in Civil Engineering;
- - Advanced Strength of Materials;
- - Finite Element Methods;
- - Selected Topics in Civil Engineering;
- - Engineering Analysis