C.V.

Mahmoud Abdel Aziz Abdel Mohsen EL-Mandouh

Personal data

*Position: Associated professor, faculty of engineering, Beni Suef University, structural analysis

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* Position of recruitment: Exemption

*Membership: Egypt engineer's syndicate

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Academic Education:

* B.Sc. civil engineering department, faculty of engineering, EL-Mansoura University, Egypt, 2002, grade "very good with honors" and project of RC structures with grade "Excellent".

* M.Sc. structural engineering on studying, seismic response of multistory HSC buildings with irregular profile, faculty of engineering, EL-Mansoura University-2009.

* P.hD. Structural Engineering on studying, seismic behavior of HSC slab-column connection with openings, faculty of engineering, EL-Mansoura University-2019.

Career

1-Civil engineer at the studies and consultations center, faculty of engineering, EL-Mansoura University from 2002-2008.

2- Civil engineer in simulation laboratory, soil mechanics and foundations, faculty of engineering, EL-Mansoura University from 2008-2010.

3- Assistant lecturer at the faculty of engineering, Beni Suef University from 2010-2019.

3- Lecture at the faculty of engineering, Beni Suef University from 2019-2023.

4- Associated professor at the faculty of engineering, Beni Suef University from July 2023 till now.

In structural design

1- Design projects according to the center for studies and engineering consultations, faculty of engineering, EL-Mansoura university.

2- Design projects at the Arab office for designs and engineering, consultancy suez canal street Mansoura, EL-Mansoura, Egypt.

Local Training

*Teaching structural analysis programs at the scientific computation center, Mansoura University, EL-Mansoura, Egypt, 2004-2015.

Books

*Analysis of determinate structures

*Analysis of indeterminate structures

*Analysis of steel bridges

Published Papers

1. "Seismic Response of Vertically Irregular HSC Moment-Resisting Building frames", Journal of Engineering and Applied Science, Faculty of Engineering, Cairo University, Vol. 57, No. 5, October 2010.

2. "Seismic performance of HSC dual systems irregular in elevation", Ain Shams engineering journal, 2013, http://dx.doi.org/10.1016/j.asej.2013.11.001.

3. "Punching shear of HSC versus NSC exterior slab-column connection with openings under cyclic load reversal", Engineering research journal, faculty of engineering, Mataria, Vol. 160, 2016.

4. "Behavior of high-strength concrete interior slab-column connections with openings under seismic loading", Construction and Building Materials, Vol. 214, https://doi.org/10.1016/j.conbuildmat.2019.04.143 , 2019, PP. 619-630.

5. "Seismic Behavior of HSC Eccentric Beam-Column Connections", International Journal of Engineering Research & Technology (IJERT), Vol. 9 Issue 07, July-2020.

6. "Dynamic analysis of high-strength concrete frame buildings for progressive collapse", Case studies in construction materials, 13 (2020) e00470, https://doi.org/10.1016/j.cscm.2020.e00470

7. "Cyclic behavior of high strength lightweight concrete slab-edge column connections with and without openings", case studies in construction material, https://doi.org/10.1016/j.cscm.2021.e00832 , (2021).

8."Shear Strength of Nano Silica High-Strength Reinforced Concrete Beams", materials, https://doi.org/10.3390/ma15113755, (2022).

9."Cyclic Behavior of High-Strength Lightweight Concrete Exterior Beam-Column Connections Reinforced with GFRP", buildings, https://doi.org/10.3390/buildings12020179, (2022).

10. "Joint shear strength prediction of beam-column connections using machine learning via experimental results", case studies in construction materials, 2022, https://doi.org/10.1016/j.cscm.2022.e01463

11. "Torsional Improvement of RC Beams Using Various Strengthening Systems", buildings, 2022, https://doi.org/10.3390/buildings12111776

12. "Behavior of Waste Glass Powder in Concrete Deep Beams with Web Openings", buildings, 2022, https://doi.org/10.3390/buildings12091334

13. "Experimental and numerical investigation of one-way reinforced concrete slabs using various strengthening systems", case studies in construction materials, 2022, https://doi.org/10.1016/j.cscm.2022.e01691

14. "Assessment of Waste Marble Powder on the Mechanical Properties of High-Strength Concrete and Evaluation of Its Shear Strength", materials, 2022, https://doi.org/10.3390/ma15207125

15. "Flexural Behavior of RC Beams Strengthened with GFRP Laminate and Retrofitting with Novelty of Adhesive Material", buildings, 2022, https://doi.org/10.3390/ buildings12091444