

Amin Abdel-Monem Kotb

Personal Data

Nationality : Egyptian.
Marital Status : Married.
Gender : Male.
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Education

University Degree : Doctor of Philosophy in Structural Engineering (2014 – 2019).
University : Cairo University.
Faculty/Institute : Faculty of Engineering.
Department : Civil Engineering.
Theses Title : *Seismic Fragility of Continuous Bridges Considering Wave Passage and Soil-Structure Interaction Effect*

Courses Studied at Primary Stage:

- Seismic Behavior of Steel Structure.
- Lateral Loads on Concrete Structure.
- Nonlinear Analysis of Reinforced Concrete.
- Plastic Analysis and Design of Steel Structure.
- Seismic Analysis of Structure.
- Pre-stress stressed concrete.
- Advanced Concrete.
- General Exam.

Finished with a GPA of (3.8/4).

University Degree : Master Degree in Structural Engineering (2010 - 2014).
University : Cairo University.
Faculty/Institute : Faculty of Engineering.
Department : Civil Engineering.
Theses Title : *Behavior and Flutter Stability of Long-Span Cable-Stayed Bridges with Cable Net*

Courses Studied at Primary Stage:

- Soil-Structure Interaction.
- Structural Analysis of Highway Bridges.

- High Rise Steel Building.
- Finite Element analysis.
- Structural Stability.
- Seminar.
- Technical English and Communication Skills.

Finished with a GPA of (3.61/4).

University Degree : Bachelor of Engineering 2010.
University : El-Shorouk Academy.
Faculty/Institute : Faculty of Engineering.
Department : Civil Engineering.
Cumulative Grade : Excellent with Honor (90%)

Project Grade : Excellent.
Graduation Project : Structure Analysis Project.

Degree : ATEFL Certificate 2018
University : Cairo University
Grade : **587**

Languages : Arabic Native Tongue
English Very Good

Academic Career

Lecturer at the Higher Institute of Engineering (*Shorouk Academy*)

(January 2020 - Present)

Worked as Lecturer in the department of civil engineering teaching the following courses:

1. Structural Dynamic and Earthquakes.
2. Soil Dynamics
3. Tall Buildings.
4. Structural Analysis by Computer.
5. Pre-stressed Concrete.
6. Concrete Graduation Project.
7. Structure Graduation Project.

Teaching Assistant at the Higher Institute of Engineering (Shorouk Academy)

(September 2010 - 2019)

Worked as a teaching assistant in the department of civil engineering teaching the following courses:

1. Structural Analysis.
2. Structural Mechanics.
3. Dynamic and Stability.
4. Earthquakes.
5. Tall Buildings.
6. Computer Analysis Programs (SAP2000).
7. Reinforced Concrete.
8. Structure Graduation Project.
9. Reinforced Concrete Graduation Project.

Professional Activities

Structural Designer at Hosny Consulting Engineers (HCE)

Part-time structural engineer.

(September 2015 – Present)

Participated in the structural design and analysis for several projects, main projects:

- Review and design of AEON Towers - 6th October including check and review of RC elements and design of all post-tension slabs.
- Design of Merryland Park buildings containing cinema building with post-tension waffle slabs, Gym building, and hall building.
- Design of Azhar library building including the design of all post-tension slabs and design of theater building containing post-tension transfer slab carrying three heavily loads post-tension floors.
- Check and review of SECON Nile Towers including main structure elements, post-tension slabs, and other design aspects.

Graduate Project:

Structure Analysis Graduation project including:

- Investigating different modeling techniques and modeling parameters (i.e, element types, and torsion stiffness) for floors and plane frames under different loading types (namely, gravity loads, lateral loads, settlement, and temperature)
- The design of a reinforced concrete villa.
- Analysis and design of tall buildings (25 floors).

Publications

1. Ramadan OMO, Mehanny SSF, Kotb AA-M. "Assessment of seismic vulnerability of continuous bridges considering soil-structure interaction and wave passage effects". Engineering Structures Volume-206 Issue-1, March 2020. DOI:10.1016/j.engstruct.2019.110161. (Thomson Router IF=3.045)
2. Kotb, A.A-M., Mehanny, S.S.F., and Ramadan, O.M.O (2019), "Effects of Soil-Structure Interaction on the Inelastic Seismic Response of Continuous Bridges on Piled Foundation", International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 – 8958, Volume-8 Issue-6, August 2019. (Scopus-index).
3. Mehanny, S. S. F., O. M. O. Ramadan, and A. A. - M. Kotb, "Prioritizing wave passage and soil-structure interaction effects for the seismic fragility of multi-span bridges", 17th World Conference on Earthquake Engineering, Sendai, Japan, September 2020.

Main Courses

- SAP2000
- SAFE 2016
- ETABS 2018
- CSI-Column
- ADAPT Builder 2018
- AutoCAD 2020
- AutoCAD Robot Structure Analysis 2018
- ICDL (International Computer Driving License)

Soft Skills

- Ability to Work as a Member in a Team
- Work Under Pressure
- Very Good Research Abilities
- Self-Motivated
- Excellent Communication Skills
- Fast Learning
- Like Learning New Subjects of New Fields

References Available Upon Request