

CURRICULUM VITAE



Name : Maher Abd El-Rahman Adam
(B.Sc., M.Sc., Ph.D., Consultant Eng.)

Date of Birth : April 29, 1963

Nationality : Egyptian

Academic Affiliation : Associate Professor, Dept. of Civil Eng., Faculty of Eng. (Shoubra), Benha University, Cairo, Egypt.

Professional Affiliation : **Technical Manager, Oekoplan Structures, Cairo Egypt.
** Structure Design Manager, Technical Consultations BureauTCB (El Sahly-El Sawy), Dokki, Giza, Egypt.
** Registered professional Engineer for unlimited design (High Rise Bldgs) in Dubai Municipal Authority (United Arab Emmerates)

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Academia: <https://benha.academia.edu/DrMaherAdam>

Education:

o **March, 1997: Doctor of Philosophy (Ph.D.), Okayama University, Japan.**

Obtained through a private scholarship offered from the Japanese Ministry of Education (Monbousho) in the field of Earthquake Engineering.

Thesis Title: *“Nonlinear Seismic Analysis of Irregular Sites and Underground Structures by Coupling BEM to FEM”*

o **May, 1991: Master of Science (M.Sc), Ain Shams University, Egypt.**

Thesis Title: *“Enhancing the dynamic serviceability of floors subjected to dynamic loads”*

o **May, 1986: Bachelor of Science (B.Sc.), Zagazig University.**

General Grade: **Very Good with Honor Degree, (82.42%)**

Project Grade : **Distinction (Reinforced Concrete Structures)**

Academic Carrier History:

October, 1986 - July, 1991:

Teaching Assistant, Civil Engineering Department, Faculty of Engineering (Shoubra), Zagazig University, Cairo, Egypt.

August, 1991 – September, 1993:

Assistant Lecturer, Civil Engineering Department, Faculty of Engineering (Shoubra), Zagazig University, Cairo, Egypt.

October, 1997 – December, 2002:

Assistant Professor, Civil Engineering Department, Faculty of Engineering (Shoubra), Zagazig University, Cairo, Egypt.

January, 2003– to date:

Associate Professor, Civil Engineering Department, Faculty of Engineering (Shoubra), Zagazig University, Cairo, Egypt.

Experience in Academic Research Field at International Universities:

July 17, 2004 ~ October 11, 2004:

Visiting Professor to Okayama University, Japan invited by the Japanese Association of International Education as a Follow-up fellow.

April 3, 2003 ~ Jun 27, 2003:

Visiting Professor to Technical University Hamburg-Harburg (TUHH), Germany invited by the DFG-Graduiertenkolleg “Ocean Engineering Structures”.

July 7, 1999 ~ September 22, 1999:

Visiting Researcher to Ruhr University at Bochum, Germany invited by the Graduate School of Computational Structural Dynamics “Graduiertenkolleg”.

August 8, 1998 – September 23, 1998:

Visiting Researcher Ruhr University at Bochum, Germany invited by the Graduate School of Computational Structural Dynamics “Graduiertenkolleg”.

Teaching Experience

Participated in the teaching activities of the following courses and subjects:

- 1- Analysis and Design of Reinforced Concrete Structures.
- 2- Seismic Analysis of Reinforced Concrete Structures.
- 3- Supervising of R.C. graduation projects for 4th year students.
- 4- Dynamics of structures (Post graduate course).
- 5- Geotechnical Engineering (Post graduate course).
- 6- Supervising of Master and Doctor Thesis in the Field of Structural Dynamics and Earthquake Engineering.

Professional Carrier History:

January 2009 ~ Date:

Technical Manager, Oekoplan Structures, Cairo Egypt.
Owner Consultant for STONE TOWER mega project

November, 2005 ~ Date:

Structure Design Manager, Technical Consultations Bureau TCB (El Sahly -El Sawy), Dokki, Giza, Egypt.

April, 1997 ~ Nov. 2005:

- **Head & Supervisor of the Technical and Structural Design Office of El-Motaheda Company for Construction & Housing Investment, Nasr City, Cairo, Egypt.**
- **Supervisor of the Technical and Structural Design Office of Afico Company for Construction & Kaha, El-Kalubia, Egypt.**
- **Technical Office (sub-contractor) for CCC-ORASCOM for preparation of As-built drawing of Golden Pyramids Plaza Project, Heliopolis, Cairo, Egypt.**
- **Design and construction supervision of R.C. structures for several factories, houses and Villas at Cairo, Elkalubia, Giza and South Sinai in cooperation with many consultant offices and construction companies.**

November, 1989 ~ December, 1992:

Senior Structural Engineer at Prof. Dr. Ahmed Massoud Consultant Office, Dokki, Giza, Egypt.

April, 1988 ~ November, 1989:

Design and supervision of R.C. structures for private sector at El-Kalubia Governorate.

August, 1986 ~ January, 1987:

Structural Engineer, Misr Consult Office, Prof. Shaaban Taha, Cairo, Egypt.

Sample of Major Projects:

***** General Building Project**

Development of Aswan International Airport that includes:

- ◀ Terminal building (2,000,000 pax/year)
- ◀ Entrance Bridge (600 m length & 15 m in width)
- ◀ Control Tower (A.T.C. 45 m height)
- ◀ Electric Power Station

Development of Luxor International Airport that includes:

- ◀ Extension of the new terminal building (350,000 pax/year)
- ◆ **Sinai Hotels and Diving Clubs Co.**
- ◀ Diving School at Sharm El-Sheikh and Upgrading of Marina Sharm Hotel

◆ General Authority for Health Insurance Hospitals:

- ◀ *New polyclinic of Tanta Hospital (300 beds)*
- ◀ *El-Helal Hospital, Shbein El-Kom (300 beds)*
- ◀ *Polyclinic at Smouha and El-Nasr Polyclinic at El-Max, Alexandria*
- ◀ *Upgrading and remodeling of Zagazig Hospital and Mit-Ghamr Hospital*

◆ Societe Des Sucreries D'Egypt

- ◀ Revision of structural design and detailing of Medical Center at Hawamdia, Giza
- ◀ Revision of structural design and detailing of Director building
- ◀ Revision of structural design and detailing of Clinical Staff building.

***** Industrial Building Projects**

◆ White Cement Plant in Algeria, (Ciba White)

- ◀ Supervision of structural analysis, design, detailing and shop drawing of Raw Mill department and Heat Exchanger department.

◆ AUCC Cement Plant Line 2 in Libya, 5000 TPD

- ◀ Supervision of structural analysis, design, detailing and shop drawing of Storage department and Feed building.

◆ Hoang Thach3 Cement Plant Line 3 in Vietnam, 3300 TPD

- ◀ Supervision of structural analysis, design, detailing and shop drawing of Feed Silo department and Transfer buildings.

◆ ACC-Ramliya Cement Plant in Egypt, 6000 TPD

- ◀ Revision of structural analysis, design, detailing and shop drawing of Raw Mill department.

◆ Royal-Elmenya Cement Plant in Egypt, 900 TPD

- ❖ Supervision of structural analysis, design, detailing and shop drawing of Silicon Sand Grinding department.
- ◆ **Modern Cement Plant in Jordan, 3500 TPD**
- ❖ Supervision of structural analysis, design, detailing and shop drawing of Exhaust Gas Conditioning department.
- ◆ **Wadi El-Nile Cement Plant in Egypt, 6000 TPD**
- ❖ Supervision of structural analysis, design, detailing and shop drawing of the whole plant departments.
- ◆ **Aleppo Cement Plant in Syria, 7500 TPD**
- ❖ Supervision of structural analysis, design, detailing and shop drawing of the Exhaust Gas conditioning Department.
- ◆ **Gulf Cement Plant in Qatar, 5000 TPD**
- ❖ Supervision of structural analysis, design, detailing and shop drawing of the Exhaust Gas conditioning Department.

Admistration Building and Housing Projects

- ◆ **Preparation and Execution of As-Built Drawings for the major complex GOLDEN PYRAMIDS PLAZA PROJECT, Heliopolis, Cairo.**
- ◆ Structural design and detailing for a major complex for Ministry of Internal Safety, **Kingdom of Saudi Arabia** through Prof. Dr. Shaaban Taha Consultant office, Cairo.
- ◆ Design and construction supervision of El-Salem Steel factory at El-Obour City.
- ◆ Design and construction supervision of the developments and extensions of Arab Dairy for Milk Products Company factory at Kaha City.
- ◆ Design of Multipurpose Hall for Youth Sport Center at Raas Nasrani (South Sainai)
- ◆ Design and construction supervision of Villa at the Fifth Colloquium, Nasr City.
- ◆ Design of housing and administration building at El-Queds El-Sharif St., Giza.
- ◆ Design & construction supervision of El-Mohandessen Tower, 11 stories at Toukh City
- ◆ Design of a 13-story administration building at El-Maadi., Cairo.

List of Publications

Associate Professor Dr. Maher Adam
Civil Engineering Department (Shoubra), Benha University, Egypt

From 1999 to 2006 :

- 1- Chouw, N, **Adam, M.**, and Su, H., (2006) 'Response of a bridge structure to spatial variation of abutment-pier movements', *Advances in Structural Engineering*, Vol. 9 (Submitted).
- 2- Chouw, N, **Adam, M.**, and Su, H., (2006) 'Influence of non-uniform abutment and pier movements on pounding responses of an isolated bridge structure', *Proceeding, 19th Australian Conference on the Mechanics of Structures and Materilas (19ACMSM)* (Submitted).
- 3- **Adam, M.**, and Chouw, N., (2005) 'Consequence of non-linear soft soil behaviour on ground excitations and building responses", *Journal of the Faculty of Environmental Science and Technology*, Okayama University, pp. 79-86.
- 4- **Adam, M.**, and Chouw, N., (2005) 'Significance of Soft Valley Sediment in Altering Spatial Ground Motions and Bridge Relative Response' *JSCE Journal of Earthquake Engineering*, Vol. 28, Paper 126 on CD-Rom.
- 5- **Adam, M.**, and von Estorff, O., (2005) 'Reduction of train-induced building vibrations by using open and filled trenches', *Computers and Structures* Vol. 83, Jan. pp. 11–24.
- 6- **Adam, M.**, Chouw, N. and von Estorff, O., (2005) 'Significance of Soft Local Site in altering the Non-uniform Ground Motions and the Building Response', *Al-Azhar University Engineering Journal, AUEJ*, Vol. 8, No. 1, Jan., pp. 154-169
- 7- **Adam, M.**, and Chouw, N., (2004) 'Investigation of Pounding Responses of Bridge Girders over a Soft Sediment Valley' *Proceedings of the Third Egyptian Conference on Earthquake Engineering, EGYQUAKE3*, Dec. 6-8,2004, Cairo, Egypt, Paper No. 16., pp. 238-252.
- 8- **Adam, M.** and Chouw, N., (2004) 'Consequence of Non-linear Soft Soil Behaviour on Ground Excitations and Building Responses', *Journal of the Faculty of Environmental Science and Technology*, Okayama University, Japan, Special Edition, Nov., pp. 79-86.
- 9- **Adam, M.**, and Schmid, G., (2002) 'Investigation of Ground Vibrations in the Vicinity of A Train Track Embankment', in "Wave propagation-Moving loads-Vibration Reduction", Chouw & Schmid (Editors), A.A. Balkema Publishers Lisse, Tokyo, Japan, pp71-77.
- 10- **Adam, M.** and Shaaban, I., (2002) 'Seismic Response of R.C. Building Frames Subjected to Combined Horizontal and Vertical Excitations', *Engng. Research Journal, faculty of Engineering (Mattaria), Helwan University, Egypt*, Vol. 82, Aug. pp. 59-75.
- 11- **Adam, M.** and El-Mohr, M., (2002) 'Effect of Using Different Concrete Strengths for Columns and Beams on The Behaviour of Building Frames', *Proc. Of the 4th International Conference On Civil & Architecture Engineering, 4ICCAE*, Military Technical College, Cairo, Egypt, May.
- 12- **Adam, M.**, (2002) 'Reduction of Train Induced Building Vibrations Using Open and In-filled Trench Barriers', *Proc. Of the 4th International Conference On Civil & Architecture Engineering, 4ICCAE*, Military Technical College, Cairo, Egypt, May.

13- **Adam, M.** and Chouw, N., (2001) 'Reduction Of Footing Response to Man-made Excitations by Using a Wave Impeding Barrier', *Journal of Applied Mechanics, JSCE, Japan*, Vol. 4, Aug. pp. 423-431.

14- Shaaban, I., and **Adam, M.**, (2000) 'Seismic Behavior of Beam-Column Connections in High Strength Concrete Building Frames', *Proc. Of 8th Arab Structural Engineering Conference (8ASEC)*, Cairo, Egypt, Oct. 21-23, paper No. C-3, pp.469-481.

15- **Adam, M.**, Schmid, G., and Chouw, N., (2000) 'Investigation of Ground motions and Structural Responses in Near Field due to Incident Waves', *Proc. Of 12th World Conference on Earthq. Eng. (12WCEE 2000)*, Auckland New Zealand, January, paper No. 1313 (CD ROM).

16- **Adam, M.**, Pflanz, G. and Schmid, G., (2000) 'Two- and Three-dimensional Transient Responses of Half-Space under Dynamic Strip Loads and Train Track Loads', *Proc. Of 12th World Conference on Earthq. Eng. (12WCEE 2000)*, Auckland New Zealand, January, paper No. 568 (CD ROM).

17- **Adam, M.**, Pflanz, G. and Schmid, G., (2000) 'Two- and Three-dimensional Modelling of Half-Space and Train Track Embankment under Dynamic Loading', *Soil dynamics and Earthquake Engineering*, Vol. 19, No. 8, Dec., Elsevier Science, UK., pp.559-573.

18- Xie, G., Taniguchi, T., Schmid, G., **Adam, M.**, and Chouw, N., (1999) 'Effect of Vertical Strong Ground Motions On ductility Demand of RC Columns', *Proc. Of the First International Summer Symposium, JSCE*, Tokyo, Japan, August 6, pp.37-40.

19- **Adam, M.**, Taniguchi, T., Schmid, G., Xie, G. and Chouw, N., (1999) 'Soil Effect on Wave Propagation And Structural Responses in Near Field', *Proc. Of the First International Summer Symposium, JSCE*, Tokyo, Japan, August 6, pp.1-4.

Before 1999.:

20- Takemiya, H. and **Adam, M.**, (1998), '2D Nonlinear seismic ground analysis by FEM-BEM: The case of Kobe in the Hyogo-ken Nanbu earthquake' *Journal of Structural Mech. and Earthq. Eng., JSCE*, No. 584/ I-42, Vol. 15 (1), pp. 19s-27s.

21- Takemiya, H. and **Adam, M.**, (1997), 'Seismic wave amplification due to topography and Geology in Kobe during Hyogo-ken Nanbu earthquake', *Journal of Structural Mech. and Earthq. Eng., JSCE*, No. 570/ I-40, Vol. 14 (2), pp. 129s-138s.

22- Takemiya, H. and **Adam, M.**, (1996), 'Destructive seismic waves in the Hyogo-ken Nanbu earthquake, Japan, 1995: Effects of topography', *Proc. of Asia-Pacific Conf. on Shock and Impact Loads On Structures, SILOS*, Jan., Singapore, pp. 437-444.

23- **Adam, M.** and H. Takemiya, (1996), 'Seismic wave amplification in Kobe during Hyogo-ken Nanbu earthquake', *Proc. of the 11th World Conf. on Earthq. Eng. (11WCEE)*, Mexico, Elsevier Science, Paper No. 1885.

24- Takemiya, H. and **Adam, M.**, (1995), 'Seismic response reduction of tunnel in alluvium site', in Loo, C. Y. (ed.) Building for the 21st Century, *Proc. of 5th East Asia-Pacific Conf. on Structural Eng. and Construction, EASEC-5*, Australia, pp. 1443-1448.

25- Herasme, E., **Adam, M.** and Chouw, N., (1995), 'Soil effects and their importance in seismic design', *Proc. Of the Second Cairo Earthquake Engineering Symposium, CEES*, Cairo, Egypt, pp. 221-242.

26- Takemiya, H. and **Adam, M.**, (1995), 'Why the heaviest damages occurred in Kobe during the Hyogo-ken Nanbu Earthquake, Japan 1995', in Brebbia, C.A. (ed.), *The*

Kobe Earthquake: Geodynamical aspect, Computational Mech. Publications, Southampton, UK, pp. 39-58.

27- **Adam, M.** and H. Takemiya, (1995), 'Soil amplification by topographies during Hyogo-ken Nanbu earthquake', *Proc. of the 23rd JSCE Earthq. Engng. Symp.*, July, Tokyo, Japan, pp. 245-248.