# Essam Ali Mahmood AL-NUAIMY, Ph.D. Tila' Al' Ali, Postal Code: 11953, Amman-Jordan, e.a.alnuaimy@gmail.com Mobile: 0798933871

# **EDUCATION**

1994– 1998	University of Wales Swansea, United Kingdom,
	Ph.D. in Civil Engineering/ Structural Engineering
	Thesis Title: Numerical investigations of vibration of beams under moving mass,
	Graduation Date: January 1998.
1990 - 1994	University of Wales Swansea, United Kingdom, Bachelor of Engineering (B.Eng.) First-Class Honours in Civil Engineering.

#### WORK EXPERIENCE IN CIVIL ENGINEERING SECTOR

2018 to date	Cost Manager,
	Karbala Oil Refinery Project-IRAQ
	Power Engineering World for Contracts Ltd.
	30, prince Zaid Bin Al Hussein St., Um Uthaynah,
	P.O.Box 4845, Amman 11953, Jordan
2016 - 2017	After Sales Manager,
	Decision-Maker Auto Trading Company,
	Mecca Street, Building No. 148,
	P.O.Box: 926348,
	Amman 11190, Jordan.
2015-2016	Research Fellow,
	Technical University of Chemnitz,
	Reichenhainer Str. 70,
	09126 Chemnitz, Germany.
2006 2014	
2006 - 2014	Assistant Professor,
	Civil Engineering Department,
	Gulf University,
	Bahrain.

## **RESEARCH INTERESTS**

- Statistical analysis of frequency response of stochastic continuous structural elements.
- Numerical investigation on vibrational energy confinement in monocoupled cyclically periodic structure
- Matlab Mathematical/Numerical Modelling

# **TAUGHT COURSES**

- 1- Fundamentals of Materials
- 2- Basic Engineering Analysis 1
- 3- Basic Engineering Analysis 2
- 4- Civil Laboratory I
- 5- Introduction to Civil Engineering Materials
- 6- Engineering Analysis 1A (Aero & Civil)
- 7- Engineering Analysis 2A (Aero & Civil)
- 8- Strength of Materials
- 9- Engineering Mechanics
- 10- Engineering Professional Development
- 11- Fluid Mechanics I
- 12- Reinforced Concrete Design
- 13- Basic Soil Mechanics
- 14- Steel Design
- 15- Structural Mechanics I
- 16- Engineering Management (Civil)
- 17- Civil Engineering Design Practice I
- 18- Civil Engineering Design Practice and Management II.
- 19- Structural Mechanics III
- 20- Finite Element Method
- 21- Engineering of Foundation

#### **CURRICULA DEVELOPMENT**

Feb-June 2009	Member of an academic committee for developing engineering programs for Gulf University.
Oct 2010-Dec 2011	Member of an academic committee for developing engineering programs for Gulf University to get ABET accreditation.

### SKILLS

- 2D & 3D Computer Aided Design
- Programming Ability with Matlab
- Finite element modeling

### LIST OF PUBLICATIONS

- Stochastic finite element analysis and safety assessment of structures under random excitations, E.A. Al-Nuaimy, S. P. Lau, Structural Engineering International, Volume 6, Number 4, 1996, pp. 55-59(5).
- Stochastic dynamic stiffness method for vibration and energy flow analyses of skeletal structures, , E.A. Al-Nuaimy, S. P. Lau, Structural Engineering International, Volume 7, Number 3, 1997, pp.46-49(4).
- **3-** Vibration analysis of structures built-up of randomly inhomogeneous curved and straight beams using stochastic dynamic stiffness matrix method, E.A. Al-Nuaimy, S. P. Lau, Structural Engineering International, Volume 8, Number 2, 1998, pp. 42- 45(4).
- 4- Vibration energy flow analysis in randomly parametered coupled plate structures using Green's

function coupling technique, E.A. Al-Nuaimy, S. P. Lau, Structural Engineering International, Volume 10, Number 1, 2000, pp. 8-11(4)

- 5- Bridge damage detection using vibration data on vehicle-structure interactions, E.A. Al-Nuaimy, S. P. Lau, Structural Engineering International, Volume 12, Number 2, 2002, pp. 76-79(4).
- 6- Reliability Analysis of Randomly Vibrating Structures with Parameter Uncertainties, E.A. Al-Nuaimy, A. J. Salih, Structural Engineering International, Volume 14, Number 1, 2004, pp. 37-41(5).
- 7- Method and Analysis of Vertically Tensioned Prestressed Concrete Beams, E.A. Al-Nuaimy, A. J. Salih, Structural Engineering International, Volume 15, Number 3, 2005, pp. 129-134(6).
- B- Dynamic state estimation techniques for identification of parameters of finite element structural models, E.A. Al-Nuaimy, Structural Engineering International, Volume 19, Number 4, 2009, pp. 370-374(5).
- 9- Vibration testing of structures under random support excitations, E.A. Al-Nuaimy, Structural Engineering International, Volume 25, Number 4, pp. 414-418(5)

#### LIST OF REFRENCES

# 1- Nedhal A. M. Alnuaimi, Ph.D.

Civil Engineering Department, Diyala University, Iraq E-mail: <u>nedhal\_ali2006@yahoo.com</u>

#### 2- Sabah M. Asker, Ph.D.

Assistant Professor AMA International University P.O.Box: 8041 Kingdom of Bahrain Mobile: (+973) 39497879 E-mail: <u>sabahas2003@yahoo.com</u>

### 3- Osama Assad, CEO.

Power Engineering World for Contracts Ltd. 30, prince Zaid Bin Al Hussein St., Um Uthaynah, P.O.Box 4845, Amman 11953, Jordan