

Name: Ahmad Nawaf Tarawneh

Email: atarawn@clemson.edu

Mobile: (864)207-0204

Personal Information ▾

- Name: Ahmad Nawaf Tarawneh
- Place & Date of Birth: Amman, Jordan 6 February 1990.
- Gender: male.
- Marital Status: Single.



Education ▾

- Ph.D. Student Clemson University, Clemson, USA. Structural Engineering.
- M.Sc. 2015, Jordan University, Amman, Jordan, Structural Engineering. ‘Seismic Performance of Retrofitted Reinforced Concrete multistorey Frames with Ground Soft-Storey Due to Masonery Infill walls’.
- B.Sc. 2013, Jordan University, Amman, Jordan. Civil Engineering

Languages ▾

- Arabic (writing and speaking) – Native Language.
- English (writing and speaking) – Very Good. TOEFL IBT exam and scored (91).

Academic and professional Projects ▾

- *Effect Of Different Factors On The Seismic Demands Of SDOF Systems*
Based on the nonlinear inelastic dynamic analysis of single degree of freedom systems (SDOF), this project investigates the effect of different parameters on the seismic response of the system. An idealized SDOF system that represents both short, and long period structures is subjected to two sets of synthetic ground motions according to the site condition; stiff rock site, and stiff soil site, each contains three records. The structure period vary from 0.1 to 2 seconds, and the post yielding stiffness ratios vary from 0.0 to 0.2 with two hysteresis models; modified Clough, and Bilinear model, are used in the analysis to separate the effect of stiffness degradation.

Name: Ahmad Nawaf Tarawneh

Email: atarawn@clmson.edu

Mobile: (864)207-0204

- *Nonlinear staged Construction analysis and differential shortening due to creep and shrinkage.*

A staged construction analysis for a 60 story tower (Rafal Kempinski- KSA Riyadh). The analysis has been conducted using MIDAS Gen software to see the effect of staged construction, creep, and shrinkage on the differential shorting between the core and perimeter columns of the tower.

- *High-rise Buildings design*

An experience in high-rise building design, the main duty was designing structural systems; lateral loads resisting system. The duties includes designing outriggers system, transfer slabs, raft foundations, value engineering.

- *Direct Displacement Based Design*

An on-going study aims to review the existing equations used to estimate the equivalent damping and compare the values obtained from these equation with equivalent damping values from an iterative procedure as will be mentioned later. Study the effect of different types of earthquake records; far fault records of all soil conditions, near fault records of forward directivity, and near fault records of fling step effect. Also, the effect of record duration, the effect of ductility level, effective period, and post yielding stiffness ratio of bilinear hysteresis model on the equivalent damping values.

Work Experience ▾

- Structural engineer in e.Construct company- High rise buildings division.
1st January 2015 to 1st January 2016
- Worked as site engineer in "Muner Hajiri" for three months.
- Worked as site engineer for 7 months.

Publications ▾

Ahmad N. Tarawneh, Sereen A. Majdalaweyh and Bassam Z. Mahasneh, "The Effect of Using Hysteresis Models (Bilinear and Modified Clough) on Seismic Demands of Single Degree of Freedom Systems" American Journal of Applied Sciences, Vol, 13. DOI: 10.3844/ajassp.2016.913.923.

Software's ▾

- ETABS.
- Midas Gen
- Midas- Soil Work
- SAFE
- Prokon.
- Sap2000.
- Microsoft office
- Geo Studio
- MATLAB