

Curriculum Vitae

Name: **AbdulQader Said Al-Najmi**
Nationality: Jordanian
Marital Status: Married
Children: 3 sons

Academic Rank: Professor

Education:

Ph D in Structural Engineering, June 1980
Victoria University of Manchester, United Kingdom
M Sc in Structural Engineering, September 1977
Victoria University of Manchester, United Kingdom
B Sc in Civil Engineering, June 1972
University of Cairo, Egypt.

Area of Specialization:

(1) Design:

- Design of Steel Structures
- Design of Reinforced Concrete Structures.
- Design of Composite Construction

(2) Research:

- Analysis of Reinforced Concrete Columns, Uniaxial and Biaxial Loading
- LRFD Method of Design (Steel Design and Analysis)
- Connected composite concrete members (New topic)
- New Frontiers in Concrete filled steel tubes in compression and bending.
- The use of swimmer bars (new type of reinforcement steel bars) in shear for beams and for punching shear in flat plates.
- Transformation Techniques in Reinforced Concrete Elements.

(3) General Activities

- Member of the team that drafted the “Jordanian Steel Construction Code-ASD”
- Member of the team that completed “Manual on the Jordanian Reinforced Concrete”.
- Member of the technical committee for Certificates’ Evaluation – Ministry of Higher Studies.

Practical Experience:

1972-1973 Material Engineer, Bin Laden Organization, Jizan, Saudi Arabia
1973-1974 Project Engineer, Bin Laden Organization, Jizan, Saudi Arabia
1974-1976 Project Manager, Bin Laden Organization, Jizan, Saudi Arabia
Consultant to various Steel and Reinforced Concrete projects in Jordan and abroad.

Administrative Posts:

1. Chairman of Civil Engineering Department: 1986-1989
2. Assistant Dean: 1989-1991.
3. Vice-Dean of Faculty of Engineering and Technology 2001-2003
4. Vice-Dean of Faculty of Higher Studies –Scientific colleges 2004-2007
5. Chairman of Civil Engineering Department: 2008-2009.
6. Head of Structural Division – Civil Engineering department.
7. Member of the board –Dirasat – Scientific Stream, The University Research Journal
8. Director of Center of Consultation 2012- now.

Courses Taught:

(1) Graduate Courses:

- Advanced Reinforced Concrete*
- Steel and Composite Construction
- Bridge Engineering
- Plates and Shells
- Advanced Mechanics of Materials
- Matrix Structural Analysis

(2) Undergraduate Courses:

- Statics, Structural Mechanics, Strength of Materials
- Theory of Structures: 3 levels
- Reinforced Concrete 1, Reinforced Concrete 2
- Design of Steel Structures*

* Course being taught this Academic Semester 2012-2013

- (3) Supervised more than 25 Ph.D and M.Sc theses, and examined more than 40 theses, some of which outside Jordan.

Computer Skills:

Familiar with MicroSoft packages (Word, Excel, Visio), MATLAB, AutoCad, Staad Pro, Axiom, C++.

Publications:

1. Ibrahim A. Duweib, Moayyad M. Al-Nasra and **AbdelQader S. Najmi** “INVESTIGATING THE USE OF SPACE SWIMMER BARS AS PUNCHING SHEAR REINFORCEMENT OF REINFORCED CONCRETE FLAT PLATES” International J. of Engg. Research & Indu. Appls. (IJERIA). ISSN 0974-1518, Vol.6, No. I (February 2013), pp 127-139
2. **A. Najmi** “Confinement of Concrete Filled Steel Tubular Columns – New Frontiers” (2012) Accepted for Publication, Dirasat, Natural and Engineering Sciences.
3. **A. Najmi** “ Flexural Stiffness of Reinforced Concrete Beams and Columns”, 3rd International Conference on Construction in Developing Countries, Bangkok, Thailand July 2012.

4. Naiem M. Asha, Moayyad M. Al-Nasra, **Abdelqader S. Najmi**, "Optimizing the use of swimmer bars as shear reinforcement in the reinforced concrete beams", *INTERNATIONAL JOURNAL OF CIVIL AND STRUCTURAL ENGINEERING*, Volume 3, No 2, 2012. ISSN 0976 – 4399. **USA**
5. **A, Najmi** "*Connected Composite Concrete Columns*" (2006), submitted through the University of Jordan to register a **Patent** for special design of tubular steel columns.
6. Najmi, A. "*The Failure of Axially Loaded Steel Columns*," *Dirasat, Engineering Sciences*, Volume 26, No. 1, 1999.
7. Najmi, A. "*Interaction Diagrams of Short Columns Under Biaxial Bending*," *Dirasat, Natural and Engineering Sciences*, Volume 25, No. 1, 1998.
8. Najmi, A. and Tantatwi, H. "Flexural Stiffness of Rectangular Reinforced Concrete Beams at Service Loads," *Mu'tah Lil-Buhooth Wa Al-Dirasat, Mu'tah Journal For Research and Studies, Natural And Applied Sciences Series*, 1997.
9. Tayem, A. and Najmi, A. "*Design of Round Reinforced Concrete Columns*," *Journal of Structural Engineering, ASCE*, Sep. 1996, Vol. 122, No. 9, **USA**
10. Assad, A., Tayem, A. and Najmi, A. "*Homogeneity Transformation Factor for Cracked Concrete*," *Dirasat, Journal of University of Jordan*, Vol. 22 B, No. 3, 1995.
11. Najmi, A. and Tayem, A. "*Design of Circular Columns*" *Dirasat, Journal of University of Jordan*, Vol. 21 B, No. 3, 1994.
12. Najmi, A. "*Inelastic Behavior of R.C Beams*," *Dirasat, Journal of University of Jordan*, Vol. 21 B, No. 2, 1994.
13. Najmi, A. and Tayem, A. "*Uniaxial Bending of Columns*," *Journal of Structural Engineering, ASCE*, New York, Vol. 19, No. 4, April 1993, **USA**
14. Tayem, A. and Najmi, A. "*Buckling of Stepped Columns*," *Dirasat, Journal of University of Jordan*, Vol. 19 B, Jan., 1992
15. Najmi, A. and Tayem, A. "*Buckling of Truss Compression Chords*," *Dirasat, Journal of University of Jordan*, Vol. 19 B, July, 1992.
16. Najmi, A. "*The Effect of Disposition of Reinforcement on Biaxially Loaded Columns*," *Dirasat, Journal of University of Jordan*, Vol. 11, 1989.

17. Najmi, A. “*Design and Analysis of Eccentrically Loaded Short Columns with Uniaxial Bending by Transformed Sections at Ultimate Limit State*,” Dirasat, Journal of University of Jordan, Vol. 14, Sep., 1987.
18. Najmi, A. “*Design Curves of Biaxially Loaded Short Columns*,” Dirasat, Journal of University of Jordan, Vol. 14, Sep., 1987.
19. Najmi, A “*Analysis and Design of Rectangular Reinforced Concrete Columns Subjected to Biaxial Bending by the Use of Transformed Sections*,” Dirasat, Journal of University of Jordan, Vol. 13, Oct., 1986.
20. Najmi, A “*Shear of Rectangular Reinforced Concrete Sections*,” Dirasat, Journal of University of Jordan, Vol. 13, Oct., 1986.
21. Najmi, A “*Unified Stiffness Method for the Analysis and Design of Rectangular Reinforced Concrete Beams at Ultimate Limit State*,” Dirasat, Journal of University of Jordan, Vol. 13, Oct., 1986.
22. Taylor, R. and Najmi, A. “*Composite Reinforced Concrete Beams in Hogging Bending*,” Proc. Instn. Civ. Engrs. **London**, Part 2, 1980, September 801-812.
23. Taylor, R. and Najmi, A “*The Strength of the Concrete in Composite Reinforced Concrete Beams in Hogging Bending*,” Magazine of Concrete Research, **London**, Vol. 32, No. 112, September 1980.

Patents:

September 2007 “U-Shaped Links”: Confinement Generator used in concrete filled tubular sections employing the “lateral separation-confining hypothesis”. Patent No.: 2391, Date 24/9/2007. In accordance with article (15/a) of the Patents Law No. (32) of 1999 and its amendments and the regulations issued pursuant to it. And whereas the application for the registration No. (2005/144) of date (11/10/2005) has fulfilled all the requirements stipulated by the law and the regulations, and whereas such application has been published in the official gazette issue No. (363) dated (17/6/2006). In witness hereof, I have decided, upon the power vested in me by law, to grant the patent No. (2391) according to the following:

Name of invention: U-Shaped Links

Patent owner(s): University of Jordan

Name of inventor(s): Abdelqader Said Ali Najmi

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