

Professor Muhammad N.S. Hadi

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Biography:

Muhammad NS Hadi is an Associate Professor at the School of Civil, Mining and Environmental Engineering, University of Wollongong, Australia. His research interests are in concrete, FRP and optimisation. He earned his PhD from the University of Leeds, UK and his MSc and BSc from the University of Baghdad, Iraq. He is Fellow of Engineers Australia, Fellow of the American Society of Civil Engineers, Member of the Structural Engineering Institute, Member of the American Concrete Institute, Member of the International Association for Bridge and Structural Engineering, Member of Concrete Institute of Australia, Member of NSW



CONCRETE-FILLED STAINLESS STEEL TUBULAR COLUMNS

Vipulkumar Ishvarbhai Patel Qing Quan Liang Muhammad N. S. Hadi



branch, Member of International Institute for FRP in Construction (IIFC) and Life Member Australasian (iron & steel) Slag Association (ASA).

He has successfully supervised 15 PhD students and 8 MPhil students. He is currently supervising 20 PhD students. He has attracted \$1.8M of research funds alone and with collaboration with my colleagues. He has conducted 19 consultancies with the value of \$85k. He has published 118 journal articles, 233 conference articles, 16 reports and three books. He has organised two international conferences and is member of organising committees of several international conferences. He has presented his research findings in over 30 countries.

Education:

PhD Civil Engineering, Computer aided design, The University of Leeds, UK, 1989 MSc Civil Engineering, Optimum design of structures, The University of Baghdad, Iraq, 1980 BSc Civil Engineering, The University of Baghdad, Iraq, 1977

Selected Publications:

Books:

Uz, ME and Hadi, MNS (2017). Earthquake Resistant Design of Buildings. CRC Press. 290 Pages. ISBN 9780815391722.

Vipulkumar I. Patel, Qing Quan Liang and Muhammad N.S. Hadi, Concrete-Filled Stainless Steel Tubular Columns, CRC Press, Taylor & Francis, 2019

Journal Articles, etc:

Ahmed, M., Liang, Q. Q., Patel, V. I. and Hadi, M. N. S. (2018). Nonlinear analysis of rectangular concretefilled double steel tubular short columns incorporating local buckling, Engineering Structures. Vol. 175, pp. 13-26.

Peng, K, Yu, T, Hadi, MNS and Huang, Le. (2018). Compressive Behavior of Hybrid Double-Skin Tubular Columns with a Rib-Stiffened Steel Inner Tube. Composite Structures.. Vol. 204, pp. 634-644.

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Kamil, G. M., Liang, Q. Q. and Hadi, M. N. S. (2018). Local buckling of steel plates in concrete-filled steel tubular columns at elevated temperatures, Engineering Structures. 168, pp. 108-118.

Hadi, MNS, Goaiz, HA, and Yu, T (2018). Experimental Investigation of CFRP Confined Hollow Core

Reactive Powder Concrete Columns. Construction and Building Materials. 174, pp. 343-355.

Ibrahim, A. A., Sheikh, M. Neaz. And Hadi, M. N. S. (xxxx). Axial Compressive Behavior of SEA Section Reinforced Square HSC Column. ACI Structural Engineering. Letter 6 April 2018.

Alhussainy, F, Sheikh, MN and Hadi, MNS. (2017). Behaviour of Small Diameter Steel Tubes under Axial Compression. Structures. Vol. 11, August, pp. 155-163.

Wang, W, Sheikh, MN, Hadi, MNS, Gao, D and Chen, G. (2017). Behaviour of concrete-encased concrete-filled FRP tube (CCFT) columns under axial compression. Engineering Structures. Vol. 147, pp. 256-268. Goaiz, HA, Yu, T and Hadi, MNS (2018). Behaviour of CFRP-Confined Hollow Circular Concrete Columns with Inner PVC Tube. Advances in Structural Engineering. Vol. 21(8) 1120–1133

Jameel, M, Sheikh, MN. and Hadi, MNS, (2017). Behaviour of Circularized and FRP Wrapped Hollow Concrete Specimens under Axial Compressive Load. Composite Structures. Vol. 171, pp. 538-548.

Patel, V. I., Liang, Q. Q. and Hadi, M. N. S. (2017). Nonlinear analysis of biaxially loaded rectangular concrete-filled stainless steel tubular slender beam columns. Engineering Structures. 9 March, 2017. 140: 120-133.

Hadi, MNS, Jameel, M and Sheikh, MN. (2017). Behavior of Circularized Hollow RC Columns under Different Loading Conditions. Journal of Composites for Construction ASCE. 04017025-1. 21(5). 13 pages. Oct 2017. Patel, V. I., Liang, Q. Q. and Hadi, M. N. S. (2017). Nonlinear Analysis of Circular High Strength Concrete-

Filled Stainless Steel Tubular Slender Beam-Columns. Engineering Structures. 130:1-13.

Khan, QS, Sheikh, MN, and Hadi, MNS (xxxx). Axial-Flexural Interactions of Concrete Filled Glass Fiber Reinforced Polymer Tube (GFRP-CFFT) Columns with and without reinforcing GFRP bars. Journal of Composites for Construction ASCE. Accepted 13 Sept 2016.

Khan, QS, Sheikh, MN, and Hadi, MNS (2016). Axial Compressive Behaviour of Circular CFFT: Experimental Database and Design-oriented Model. Steel and Composite Structures, An International Journal. 21(4): 921-947.

Yu, T, Teh, LH and Hadi, MNS (xxxx). High Strength Steel Plates in Hybrid FRP-Concrete-Steel Columns: Concept and Behaviour. Advances in Structural Engineering. Accepted 12 June 2016.

Hadi, MNS, Khan, QS, and Sheikh, MN (2016). Axial and Flexural Behavior of Unreinforced and FRP Bar Reinforced Circular Concrete Filled FRP Tube Columns. Construction and Building Materials Journal. Vol. 122, pp. 43-53.

Hadi, MNS and Youssef, J. (2016). Experimental Investigation of GFRP Reinforced and GFRP Encased Square Concrete Specimens under Axial and Eccentric Load, and Four-Point Bending Test. Journal of Composites for Construction ASCE. 20(5). 04016020. 16 pages

Wang, W, Sheikh, MN. And Hadi, MNS, (xxx). Behaviour of perforated GFRP tubes under axial compression. Thin-Walled Structures. Accepted 25 June 2015.

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Patel, V. I., Liang, Q. Q. and Hadi, M. N. S. (2014). "Nonlinear analysis of axially loaded circular concretefilled stainless steel tubular short columns", Journal of Constructional Steel Research. Vol. 101, pp. 9-18. Patel, V. I., Liang, Q. Q. and Hadi, M. N. S., "Behavior of biaxially-loaded rectangular concrete-filled steel tubular slender beam-columns with preload effects", Thin-Walled Structures, 2014. ERA Vol. 79, pp. 166-177. Patel, V. I., Liang, Q. Q. and Hadi, M. N. S. (2014), "Numerical analysis of high-strength concrete-filled steel tubular slender beam-columns under cyclic loading", Journal of Constructional Steel Research. Vol. 92, pages 183-194.

Hadi, MNS and Le, TD. (2014). Behaviour of Hollow Core Square Reinforced Concrete Columns Wrapped with CFRP with Different Fibre Orientations. Construction and Building Materials Journal. Volume 50, Jan, pp. 62-73

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Patel, VI, Liang, QQ and Hadi, MNS (2012). High strength thin-walled rectangular concrete-filled steel tubular slender beam-columns, Part I: Modeling. Journal of Constructional Steel Research 70 (2012) 377–384.

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Kusumawardaningsih, Y and Hadi, MNS (2010). Comparative Behaviour of Hollow Columns Confined with FRP Composites. Journal of Composite Structures. Volume 93, Issue 1, Dec, pp. 198-205.

Yazici, V and Hadi, MNS. (2009). Axial Load-Bending Moment Diagrams of Carbon-FRP Wrapped Hollow Core Reinforced Concrete Columns. Journal of Composites for Construction, Vol. 13, No. 4, pp. 262-268. Hadi, MNS (2007). The Behaviour of FRP Wrapped HSC Columns under Different Eccentric Loads. Journal of Composite Structures. Volume 78, Issue 4, June 2007, Pages 560-566.

Hadi, MNS. (2003). Behaviour of Wrapped HSC Columns Under Eccentric Loads. Asian Journal of Civil Engineering (Building and Housing). Vol. 4, Nos 2&3, pp. 91-100

Li, J. and Hadi, MNS. (2003). Behaviour of Externally Confined High Strength Concrete Columns under Eccentric Loading. Journal of Composite Structures. Volume 62, Issue 2, November 2003, Pages 14 Hadi, MNS (1998). "COLD-STEEL" A Computer Program for the Design of Cold Formed Steel Structures. The International Journal of Construction Information Technology. Editors: Mustafa Alshawi and Martin Skitmore, ISSN 0968-0365, Vol. 6, No.2, pp. 39-65.5-153.