

REFERENCE LIST

- [1] L. C. Hollaway, *Strengthening of Reinforced Concrete Structures: Using Externally-bonded Frp Composites in Structural and Civil Engineering*. Woodhead Publishing, 1999.
 - [2] ACI Committee 440, *Guide for the design and construction of externally bonded FRP systems for strengthening concrete structures*. Detroit: American Concrete Institute, 2002.
 - [3] M. H. Harajli, "Axial stress–strain relationship for FRP confined circular and rectangular concrete columns," *Cement and Concrete Composites*, vol. 28, no. 10, pp. 938–948, Nov. 2006.
 - [4] M. A. G. Silva, "Behavior of square and circular columns strengthened with aramidic or carbon fibers," *Construction and Building Materials*, vol. 25, no. 8, pp. 3222–3228, Aug. 2011.
 - [5] C. Chastre and M. A. G. Silva, "Monotonic axial behavior and modelling of RC circular columns confined with CFRP," *Engineering Structures*, vol. 32, no. 8, pp. 2268–2277, Aug. 2010.
 - [6] T. E. Maaddawy, M. E. Sayed, and B. Abdel-Magid, "The effects of cross-sectional shape and loading condition on performance of reinforced concrete members confined with Carbon Fiber-Reinforced Polymers," *Materials & Design*, vol. 31, no. 5, pp. 2330–2341, May 2010.
 - [7] G. Campione, "Influence of FRP wrapping techniques on the compressive behavior of concrete prisms," *Cement and Concrete Composites*, vol. 28, no. 5, pp. 497–505, May 2006.
 - [8] S. P. Tastani and S. J. Pantazopoulou, "Experimental evaluation of FRP jackets in upgrading RC corroded columns with substandard detailing," *Engineering Structures*, vol. 26, no. 6, pp. 817–829, May 2004.
 - [9] T. C. Rousakis, A. I. Karabinis, and P. D. Kiouisis, "FRP-confined concrete members: Axial compression experiments and plasticity modelling," *Engineering Structures*, vol. 29, no. 7, pp. 1343–1353, Jul. 2007.
 - [10] M. N. S. Hadi and J. Li, "External reinforcement of high strength concrete columns," *Composite Structures*, vol. 65, no. 3–4, pp. 279–287, Sep. 2004.
 - [11] T. Turgay, Z. Polat, H. O. Koksall, B. Doran, and C. Karakoç, "Compressive behavior of large-scale square reinforced concrete columns confined with carbon fiber reinforced polymer jackets," *Materials & Design*, vol. 31, no. 1, pp. 357–364, Jan. 2010.
-

- [12] J. L. Pan, T. Xu, and Z. J. Hu, "Experimental investigation of load carrying capacity of the slender reinforced concrete columns wrapped with FRP," *Construction and Building Materials*, vol. 21, no. 11, pp. 1991–1996, Nov. 2007.
- [13] H. Wei, Z. Wu, X. Guo, and F. Yi, "Experimental study on partially deteriorated strength concrete columns confined with CFRP," *Engineering Structures*, vol. 31, no. 10, pp. 2495–2505, Oct. 2009.
- [14] M. Quiertant and J.-L. Clement, "Behavior of RC columns strengthened with different CFRP systems under eccentric loading," *Construction and Building Materials*, vol. 25, no. 2, pp. 452–460, Feb. 2011.
- [15] M. N. S. Hadi, "Behaviour of FRP wrapped normal strength concrete columns under eccentric loading," *Composite Structures*, vol. 72, no. 4, pp. 503–511, Apr. 2006.
- [16] G. Promis and E. Ferrier, "Performance indices to assess the efficiency of external FRP retrofitting of reinforced concrete short columns for seismic strengthening," *Construction and Building Materials*, vol. 26, no. 1, pp. 32–40, Jan. 2012.
- [17] M. F. Green, L. A. Bisby, A. Z. Fam, and V. K. R. Kodur, "FRP confined concrete columns: Behaviour under extreme conditions," *Cement and Concrete Composites*, vol. 28, no. 10, pp. 928–937, Nov. 2006.
- [18] "Finite element method," Wikipedia, the free encyclopedia. 08-Mar-2013.
- [19] Damian I. Kachalakev, "Finite-Element-Analysis-And-Model-Validation-Of-Shear-Deficient-Reinforced-Concrete-Beams-Strengthened-With-GFRP-Laminates.Pdf."
- [20] D. I. Kachlakev, T. Miller, S. Yim, K. Chansawat, and T. Potisuk, "Finite Element Modeling of Concrete Structures Strengthened with FRP Laminates," Oregon Department of Transportation and Federal Highway Administration. Report FHWA-OR-RD-01-17. May, 2001.
- [21] S. Imaoka, "STI0802_Drucker_Prager." 15-Mar-2008.
- [22] "Theory Reference for the Mechanical APDL and Mechanical Applications." ANSYS, Inc., Nov-2009.
- [23] D. Koksall and K. Polat, "The Use of 'Drucker-Prager Criterion' in the Analysis of Reinforced Concrete Members by Finite Elements."
- [24] T. Beitelman, A. Mirmiran, and M. Shahawy, "Tests and modeling of carbon-wrapped concrete columns."
-

- [25] A. Mirmiran, K. Zagers, and W. Yuan, “Nonlinear finite element modeling of concrete confined by fiber composites.”
- [26] R. Eid and P. Paultre, “Plasticity-based model for circular concrete columns confined with fibre-composite sheets,” *Engineering Structures*, vol. 29, no. 12, pp. 3301–3311, Dec. 2007.
- [27] T. Yu, J. G. Teng, Y. L. Wong, and S. L. Dong, “Finite element modeling of confined concrete-I: Drucker–Prager type plasticity model,” *Engineering Structures*, vol. 32, no. 3, pp. 665–679, Mar. 2010.
- [28] T. Yu, J. G. Teng, Y. L. Wong, and S. L. Dong, “Finite element modeling of confined concrete-II: Plastic-damage model,” *Engineering Structures*, vol. 32, no. 3, pp. 680–691, Mar. 2010.
- [29] H. O. Koxsal, B. Doran, and T. Turgay, “A practical approach for modeling FRP wrapped concrete columns,” *Construction and Building Materials*, vol. 23, no. 3, pp. 1429–1437, Mar. 2009.
- [30] Externally bonded FRP reinforcement for RC structures. International Federation for Structural Concrete (fib), 2001.
- [31] G. Campione and N. Miraglia, “Strength and strain capacities of concrete compression members reinforced with FRP,” *Cement and concrete composites*, vol. 25, no. 1, pp. 31–41, 2003.
- [32] B. Standard, “British Standard,” BS 7533-1 Guide for the Structural Design of Heavy Duty Pavements Constructed of Clay or Concrete Pavers, 2001.
- [33] B. E. Ross and H. R. (Trey) Hamilton III, “Evaluation of strain gage lengths for testing limestone and granite aggregate concretes,” *Construction and Building Materials*, vol. 25, no. 1, pp. 406–408, Jan. 2011.
- [34] “Finite element method,” Wikipedia, the free encyclopedia. 15-Apr-2013.
- [35] “ANSYS Elements Reference, Release 9.0.” ANSYS, Inc., Nov-2004.
-