

Journal, V. 21, No. 1, Jan.-Feb., pp. 20-39. doi: [10.15554/pci.01011976.20.39](https://doi.org/10.15554/pci.01011976.20.39)

Mattock, A. H.; Yamazaki, J.; and Kattula, B. T., 1971, "Comparative Study of Prestressed Concrete Beams, with and without Bond," *ACI Journal Proceedings*, V. 68, No. 2, Feb., pp. 116-125. doi: [10.14359/11298](https://doi.org/10.14359/11298)

Megally, S., and Ghali, A., 2002, "Punching Shear Design of Earthquake-Resistant Slab-Column Connections," *ACI Structural Journal*, V. 97, No. 5, Sept.-Oct., pp. 720-730. doi: [10.14359/8807](https://doi.org/10.14359/8807)

Meinheit, D. F., and Jirsa, J. O., 1977, "Shear Strength of Reinforced Concrete Beam-Column Joints," *Report No. 77-1*, Department of Civil Engineering, Structures Research Laboratory, University of Texas at Austin, Austin, TX, Jan., 291 pp. doi: [10.14359/51685433](https://doi.org/10.14359/51685433)

Meinheit, D. F., and Jirsa, J. O., 1981, "Shear Strength of R/C Beam-Column Connections," *Journal of the Structural Division*, V. 107, Nov., pp. 2227-2244.

Menn, C., 1986, *Prestressed Concrete Bridges*, B. Birkhäuser, ed., 535 pp.

Mirza, S. A., 1990, "Flexural Stiffness of Rectangular Reinforced Concrete Columns," *ACI Structural Journal*, V. 87, No. 4, July-Aug., pp. 425-435. doi: [10.14359/3056](https://doi.org/10.14359/3056)

Mirza, S. A.; Lee, P. M.; and Morgan, D. L., 1987, "ACI Stability Resistance Factor for RC Columns," *Journal of Structural Engineering*, V. 113, No. 9, Sept., pp. 1963-1976. doi: [10.1061/\(ASCE\)0733-9445\(1987\)113:9\(1963\)](https://doi.org/10.1061/(ASCE)0733-9445(1987)113:9(1963))

Moehle, J. P., 1996, "Seismic Design Considerations for Flat Plate Construction," *Mete A. Sozen Symposium: A Tribute from his Students*, SP-162, J. K. Wight and M. E. Kreger, eds., American Concrete Institute, Farmington Hills, MI, pp. 1-35. doi: [10.14359/1509](https://doi.org/10.14359/1509)

Moehle, J. P., 1988, "Strength of Slab-Column Edge Connections," *ACI Structural Journal*, V. 85, No. 1, Jan.-Feb., pp. 89-98. doi: [10.14359/2995](https://doi.org/10.14359/2995)

Moehle, J. P., 1992, "Displacement-Based Design of RC Structures Subjected to Earthquakes," *Earthquake Spectra*, V. 8, No. 3, Aug., pp. 403-428. doi: [10.1193/1.1585688](https://doi.org/10.1193/1.1585688)

Moehle, J. P., and Cavanagh, T., 1985, "Confinement Effectiveness of Crossties in RC," *Journal of Structural Engineering*, V. 111, No. 10, pp. 2105-2120. doi: [10.1061/\(ASCE\)0733-9445\(1985\)111:10\(2105\)](https://doi.org/10.1061/(ASCE)0733-9445(1985)111:10(2105))

Moehle, J. P.; Ghodsi, T.; Hooper, J. D.; Fields, D. C.; and Gedhada, R., 2011, "Seismic Design of Cast-in-Place Concrete Special Structural Walls and Coupling Beams: A Guide for Practicing Engineers," *NEHRP Seismic Design Technical Brief No. 6*, National Institute of Standards and Technology, Gaithersburg, MD, 41 pp.

Moehle, J. P.; Hooper, J. D.; Kelly, D. J.; and Meyer, T. R., 2010, "Seismic Design of Cast-in-Place Concrete Diaphragms, Chords, and Collectors: A Guide for Practicing Engineers," *NEHRP Seismic Design Technical Brief No. 3*, National Institute of Standards and Technology, Gaithersburg, MD, 33 pp.

Mitchell, D., and Collins, M. P., 1976, "Detailing for Torsion," *ACI Journal Proceedings*, V. 73, No. 9, Sept., pp. 506-511. doi: [10.14359/11091](https://doi.org/10.14359/11091)

Mitchell, D., and Cook, W. D., 1984, "Preventing Progressive Collapse of Slab Structures," *Journal of Structural Engineering*, V. 110, No. 7, July, pp. 1513-1532. doi: [10.1061/\(ASCE\)0733-9445\(1984\)110:7\(1513\)](https://doi.org/10.1061/(ASCE)0733-9445(1984)110:7(1513))

Mojtahedi, S., and Gamble, W. L., 1978, "Ultimate Steel Stresses in Unbonded Prestressed Concrete," *Journal of the Structural Division*, V. 104, No. ST7, July, pp. 1159-1165. doi: [10.14359/19419](https://doi.org/10.14359/19419)

Mphonde, A. G., and Frantz, G. C., 1984, "Shear Tests of High- and Low-Strength Concrete Beams without Stirrups," *ACI Journal Proceedings*, V. 81, No. 4, July-Aug., pp. 350-357. doi: [10.14359/10690](https://doi.org/10.14359/10690)

Muguruma, H., and Watanabe, F., 1990, "Ductility Improvement of High-Strength Concrete Columns with Lateral Confinement," *Proceedings, Second International Symposium on High-Strength Concrete*, SP-121, American Concrete Institute, Farmington Hills, MI, pp. 47-60. doi: [10.14359/2783](https://doi.org/10.14359/2783)

Muttoni, A., 2008, "Punching Shear Strength of Reinforced Concrete Slabs without Shear Reinforcement," *ACI Structural Journal*, V. 105, No. 4, July-Aug., pp. 440-450. doi: [10.14359/19858](https://doi.org/10.14359/19858)

Muttoni, A.; Schwartz, J.; and Thürlimann, B., 1997, *Design of Concrete Structures with Stress Fields*, Birkhäuser, Boston, MA, 143 pp.

Nakaki, S. D.; Stanton, J. F.; and Sritharan, S., 1999, "An Overview of the PRESS Five-Story Precast Test Building," *PCI Journal*, V. 44, No. 2, Apr., pp. 26-39. doi: [10.15554/pci.03011999.26.39](https://doi.org/10.15554/pci.03011999.26.39)

National Transportation Safety Board (NTSB), 2007, "Ceiling Collapse in the Interstate 90 Connector Tunnel, Boston, Massachusetts, July 10, 2006," *Highway Accident Report NTSB/HAR-07/02*, Washington, DC, 120 pp.

NEHRP, 1994, "The NEHRP Recommended Provisions for Seismic Regulations for New Buildings," Building Seismic Safety Council, Washington, DC.

Newlon, H. J., and Ozol, A., 1969, "Delayed Expansion of Concrete Delivered by Pumping through Aluminum Pipe Line," Concrete Case Study No. 20; Virginia Highway Research Council, Charlottesville, VA, Oct., 39 pp. doi: [10.14359/16493](https://doi.org/10.14359/16493)

Nichols, J. R., 1914, "Statistical Limitations upon the Steel Requirement in Reinforced Concrete Flat Slab Floors," *Transactions of the American Society of Civil Engineers*, V. 77, pp. 1670-1736.

Nilsson, I. H. E., and Losberg, A., 1976, "Reinforced Concrete Corners and Joints Subjected to Bending Moment," *Journal of the Structural Division*, V. 102, June, pp. 1229-1254. doi: [10.14359/51685465](https://doi.org/10.14359/51685465)

NIST, 2014, "Use of High-Strength Reinforcement in Earthquake-Resistant Concrete Structures," NIST GCR 14-917-30, National Institute of Standards and Technology, Gaithersburg, MD.

NIST, 2017a, "Guidelines for Nonlinear Structural Analysis for Design of Buildings, Part I—General," NIST GCR 17-917-46v1, prepared by the Applied Technology Council for the National Institute of Standards and Technology, Gaithersburg, MD.