

Ehsani, M. R., 1982, "Behavior of Exterior Reinforced Concrete Beam to Column Connections Subjected to Earthquake Type Loading," *Report No. UMEE 82R5*, Department of Civil Engineering, University of Michigan, Ann Arbor, MI, July, 275 pp.

Elgabry, A. A., and Ghali, A., 1987, "Tests on Concrete Slab-Column Connections with Stud Shear Reinforcement Subjected to Shear-Moment Transfer," *ACI Structural Journal*, V. 84, No. 5, Sept-Oct., pp. 433-442. doi: [10.14359/1656](https://doi.org/10.14359/1656)

Eligehausen, R., and Balogh, T., 1995, "Behavior of Fasteners Loaded in Tension in Cracked Reinforced Concrete," *ACI Structural Journal*, V. 92, No. 3, May-June, pp. 365-379. doi: [10.14359/1137](https://doi.org/10.14359/1137)

Eligehausen, R., and Fuchs, W., 1988, "Load Bearing Behavior of Anchor Fastenings under Shear, Combined Tension and Shear or Flexural Loadings," *Betonwerk + Fertigteil-Technik*, V. 54, pp. 48-56. doi: [10.14359/16854](https://doi.org/10.14359/16854)

Eligehausen, R.; Cook, R. A.; and Appl, J., 2006a, "Behavior and Design of Adhesive Bonded Anchors," *ACI Structural Journal*, V. 103, No. 6, Nov.-Dec., pp. 822-831. doi: [10.14359/18234](https://doi.org/10.14359/18234)

Eligehausen, R.; Fuchs, W.; and Mayer, B., 1987, "Load Bearing Behavior of Anchor Fastenings in Tension," *Betonwerk + Fertigteiltechnik*, V. 12, pp. 826-832, and 1988, V. 1, pp. 29-35. doi: [10.14359/19643](https://doi.org/10.14359/19643)

Eligehausen, R.; Mallée, R.; and Silva, J., 2006b, *Anchorage in Concrete Construction*, Ernst & Sohn (J. T. Wiley), Berlin, Germany, May, 380 pp.

Elwood, K. J.; Maffei, J. M.; Riederer, K. A.; and Telleen, K., 2009, "Improving Column Confinement—Part 2: Proposed New Provisions for the ACI 318 Building Code," *Concrete International*, V. 31, No. 12, Dec., pp. 41-48.

Elwood, K. J.; Matamoros, A. B.; Wallace, J. W.; Lehman, D. E.; Heintz, J. A.; Mitchell, A. D.; Moore, M. A.; Valley, M. T.; Lowes, L. N.; Comartin, C. D.; and Moehle, J. P., 2007, "Update to ASCE/SEI 41 Concrete Provisions," *Earthquake Spectra*, V. 23, No. 3, pp. 493-523, doi: [10.1193/1.2757714](https://doi.org/10.1193/1.2757714).

Elzanaty, A. H.; Nilson, A. H.; and Slate, F. O., 1986, "Shear Capacity of Reinforced Concrete Beams Using High Strength Concrete," *ACI Journal Proceedings*, V. 83, No. 2, Mar.-Apr., pp. 290-296. doi: [10.14359/10433](https://doi.org/10.14359/10433)

Fanella, D. A., and Mota, M., 2014, *Design Guide for Vibrations of Reinforced Concrete Floor Systems*, 10-DG-Vibration, Concrete Reinforcing Steel Institute, Schaumburg, IL, 60 pp.

Faradji, M. J., and Diaz de Cossio, R., 1965, "Diagonal Tension in Concrete Members of Circular Section," (in Spanish) Institut de Ingenieria, Mexico (translation by Portland Cement Association, Foreign Literature Study No. 466), 61 pp. doi: [10.14359/19496](https://doi.org/10.14359/19496)

Farrow, C. B., and Klingner, R. E., 1995, "Tensile Capacity of Anchors with Partial or Overlapping Failure Surfaces: Evaluation of Existing Formulas on an LRFD Basis," *ACI Structural Journal*, V. 92, No. 6, Nov.-Dec., pp. 698-710. doi: [10.14359/9664](https://doi.org/10.14359/9664)

Fennel, A. W.; Line, P.; Mochizuki, G. L.; Moore, K. S.; Van Dorpe, T. D.; and Voss, T. A., 2009, "Report on Labora-

tory Testing of Anchor Bolts Connecting Wood Sill Plates to Concrete with Minimum Edge Distances," SEAONC, San Francisco, CA, Mar., 50 pp.

Fintel, M.; Ghosh, S. K.; and Iyengar, H., 1986, *Column Shortening in Tall Buildings—Prediction and Compensation*, EB108D, Portland Cement Association, Skokie, IL, 34 pp. doi: [10.14359/51685083](https://doi.org/10.14359/51685083)

fib, 2011, "Design of Anchorages in Concrete. Guide to Good Practice," Bulletin No.58, International Federation for Structural Concrete, Lausanne, Switzerland, 280 pp.

FIP, 1999, *FIP Recommendations, Practical Design of Structural Concrete*, FIP-Commission 3, "Practical Design," Pub.: SETO, London, UK, Sept., 112 pp.

Fling, R. S., 1987, *Practical Design of Reinforced Concrete*, John Wiley & Sons, Inc., New York, 536 pp.

Ford, J. S.; Chang, D. C.; and Breen, J. E., 1981, "Design Indications from Tests of Unbraced Multipanel Concrete Frames," *Concrete International*, V. 3, No. 3, Mar., pp. 37-47. doi: [10.14359/16551](https://doi.org/10.14359/16551)

Foutch, D. A.; Gamble, W. L.; and Sunidja, H., 1990, "Tests of Post-Tensioned Concrete Slab-Edge Column Connections," *ACI Structural Journal*, V. 87, No. 2, Mar.-Apr., pp. 167-179. doi: [10.14359/2689](https://doi.org/10.14359/2689)

Frantz, G. C., and Breen, J. E., 1980, "Cracking on the Side Faces of Large Reinforced Concrete Beams," *ACI Journal Proceedings*, V. 77, No. 5, Sept.-Oct., pp. 307-313. doi: [10.14359/7007](https://doi.org/10.14359/7007)

French, C. W., and Moehle, J. P., 1991, "Effect of Floor Slab on Behavior of Slab-Beam-Column Connections," *Design of Beam-Column Joints for Seismic Resistance*, SP-123, J. O. Jirsa, ed., American Concrete Institute, Farmington Hills, MI, pp. 225-258. doi: [10.14359/19328](https://doi.org/10.14359/19328)

Frosch, R. J., 1999, "Another Look at Cracking and Crack Control in Reinforced Concrete," *ACI Structural Journal*, V. 96, No. 3, May-June, pp. 437-442. doi: [10.14359/679](https://doi.org/10.14359/679)

Frosch, R. J., 2002, "Modeling and Control of Side Face Beam Cracking," *ACI Structural Journal*, V. 99, No. 3, May-June, pp. 376-385. doi: [10.14359/11922](https://doi.org/10.14359/11922)

Frosch, R. J.; Labi, S.; and Sim, C., 2014, "Increasing Bridge Deck Service Life: Volume 1 – Technical Evaluation," *Publication No. FHWA/IN/JTRP-2014/16*. Joint Transportation Research Program, Indiana Department of Transportation and Purdue University, West Lafayette, IN.

Frosch, R. J.; Yu, Q.; Cusatis, G.; and Bažant, Z. P., 2017, "A Unified Approach to Shear Design," *Concrete International*, V. 39, No. 9, pp. 47-52. doi: [10.14359/51701014](https://doi.org/10.14359/51701014)

Fuchs, W.; Eligehausen, R.; and Breen, J., 1995, "Concrete Capacity Design (CCD) Approach for Fastening to Concrete," *ACI Structural Journal*, V. 92, No. 1, Jan.-Feb. 1995, pp. 73-93. Also discussion, *ACI Structural Journal*, V. 92, No. 6, Nov.-Dec., pp. 787-802. doi: [10.14359/1533](https://doi.org/10.14359/1533)

Furche, J., and Eligehausen, R., 1991, "Lateral Blow-out Failure of Headed Studs Near a Free Edge," *Anchors in Concrete—Design and Behavior*, SP-130, G. A. Senkiw and H. B. Lancelot III, eds., American Concrete Institute, Farmington Hills, MI, pp. 235-252. doi: [10.14359/1276](https://doi.org/10.14359/1276)

Furlong, R. W.; Fenves, G. L.; and Kasl, E. P., 1991, "Welded Structural Wire Reinforcement for Columns," *ACI*