

DAFTAR PUSTAKA

- Abdullah, D., and Takiguchi, K., 2003, An Investigation into the behavior and Strength of Reinforced Concrete Columns Strengthened with ferrocement Jackets, *Cement Concrete Composit* 25, pp.233-242
- ACI 318-08, 2008, *Building Code Requirements for Structural Concrete and Commentary*, American Concrete Institute, Detroit, USA
- ACI 369R-11, 2011, *Guide for Seismic Rehabilitations of Existing Concrete Frame Buildings and Commentary*, American Concrete Institute, Detroit, USA
- ACI 440. 2R-02, 2002, Guide for the Design and Costruction of Externally-Bonded Fibre FRP System for Stengthening Concrete Structures, *Committe 440 Report*, American Concrete Institute, Detroit, USA
- ACI T1.1-01, 2001, *Acceptance Criteria for Moment Frames Based on Structural Testing*, American Concrete Institute, Detroit, USA
- ACI 549.1R-93, 1999, Guide for the Design, Construction, and Repair of Ferrocement, *ACI Committee 549*, American Concrete Institute, Detroit, USA
- Ang, B.G., and Priestley, M.J.N., and Paulay, T., 1989, Seismic Shear Strength of Circular Reinforced Concrete Columns, *ACI Structural Journal*, 86(1), pp.45-59
- Ashheim, M., and Moehle, J.P., 1992, Shear Strength and Deformability of Bridge Columns Subjected to Inelastic Cyclic Displacement, (*Report No. UBC/EERC-92/04*), Berkeley, CA: University of California at Berkeley
- ATC 32, 1996, *Improved Seismic design Criteria for California Bridges, Provisional Recomendation*, California, USA.
- Assa, B., Nishiyama, M., and Watanabe, F., (2001), New Approach for Modelling Confined Concrete, I: Circular Concrete *Journal of Structural Engineering*, V.127, No.7, July, pp.743-750
- ASCE/SEI-41, 2006, *Seismic Rehabilitation of Existing Buildings*, American Society of Civil Engineers, Reston, Virgia, USA.
- ASTM A 931-96, 2002, *Standard Test Method for Tension Testing of Wire Ropes and Strand*, ASTM International, USA.



- Bae, S., and Bayrak, O., 2008, Plastic Hinge Length of Reinforced Concrete Columns, *ACI Structural Journal*, May-June, pp. 290-300.
- Bali, I., Kuo, W.W., Lesmana, C., Suswanto, B., Lin, K.T., Chen, C.C., Ko, J.W., and Hwang, S.J., 2006, Structural Damage Observation and Case Study of 2006 Yogyakarta Earthquake, *Prosiding: Earthquake Engineering and Infrastructure & Building Retrofitting*, Yogyakarta.
- Berry, M., Parrish, M., and Eberhard, M., 2004, *PEER Structural Performance Database User's Manual* (Version 1.0).
- Beyer, K., Dazio, A., and Priestley, M.J.N., 2011, Shear Deformation of Slender Reinforced Concrete Walls under Seismic Loading, *ACI Structural Journal*, March-April, pp.167-177.
- Biskinis, D.E., and Ferdis, M.N., 2008, Cyclic Deformation Capacity, Resistance and Effective Stiffness of RC Members with or without Retrofitting, *14th WCEE*, Beijing, China
- Braga, F. and Laterza, M. 1998, A new approach to the confinement of RC columns, *11th European Conf. on Earthquake Engineering*, A. A. Balkema, Rotterdam, The Netherlands.
- Braga, F., Gigliotti, R., and Laterza, M., (2006), Analytical Stress-Strain Relationship for Concrete Confined by Steel Stirrups and/or FRP Jackets *Journal of Structural Engineering* © ASCE September 2006, Vol. 132, No. 9, pp.1402-1416.
- Chasioti, S.G., Pantazopoulou, S.J., and Syntzirma, D.V., 2012, Seismic Assessment of Lightly Reinforced: A Study of Shear Demand vs. Supply, *15 WCEE*, Lisboa
- Collins, M.P., and Mitchell, D., 1991, *Prestrressed Concrete Structures*, Prentice Hall, Englewood Cliffs, New Jersey 07632, 520p.
- CSA A23.3-04, 2004, *Design of Concrete Structures*, Canadian Standard Association, Mississauga, Canada, pp 258
- Cui, C., 2009, Behaviour of Normal and High Strength Concrete Confined with Fibre Reinforced Polymers (FRP), *A thesis Doctor of Philosophy*, Department of Civil Engineering University of Toronto.



- Cusson, D. and Paultre, P. (1995), Stress-Strain Model for Confined High-Strength Concrete, *Journal of Structural Engineering, ASCE*, Vol. 121, No. 3, pp.468-477.
- Dhakal, P.R., and Maekawa, K., 2002, Modeling for Postyield Buckling of Reinforcement, *Journal of Structural Engineering* ©ASCE, Sept, pp. 1139 – 1147.
- EC 8, 1995, Design Provision for Earthquake Resistance of Structures: Part 1-4: Strengthening and Repair of Buildings, *European Committee for Standardisation, CEN/TC250, Brussels*.
- EC 8, 2001, Design Provisions for Earthquake Resistance of Structures – Part 3, *European Committee for Standardisation, CEN/TC250, Brussels*.
- EERI, 2006, Learning from Earthquake: The M_w 6.3 Java, Indonesia, Earthquake of May 27, *EERI Special Report*.
- Eid, R., Andcygler, A.N., and Paultre, P., (2010), Stress-Strain Curve for Concrete in Cylindrical Columns Based on Elastoplastic Analysis, *Material Structures* Vol. 43 pp 63-79
- Elnashai, A. S., Kim, S.J., Yun, G.J., and Sidarta, D., 2006, The Yogyakarta Earthquake of 27, 2006, *MAE Center Report No. 07-02, Mid-America Earthquake Center, University of Illinois at Urbana-Champaign*.
- Elwood, K.J., and Eberhard, M.O, 2006, Effective Stiffness of Reinforced Concrete Columns, *Research Digest No. 2006-1 A publication of the Pacific Earthquake Engineering Research Center*.
- Esmaily, A.G., and Xiao, Y., 2002, Seismic Behavior of Bridge Subjected to Various Loading Patterns, *PEER Report 2002/15, University of California, Berkeley*.
- Fattah, A.M., Rasheed, H., and Esmaily, A., 2013, LRFD Software for Design and Actual Ultimate Capacity of Confined Rectangular Columns, *Report No. K-TRAN: KSU-11-3, Kansas State University Transportation Center*.
- FEMA 547, 2006, *Techniques for the Seismic Rehabilitation of Existing Buildings*, Federal Emergency Management Agency, Washington D.C.
- FEMA 273, 1997, *NEHRP Guidelines for the Seismic Rehabilitation of Building* Federal Emergency Management Agency, Washington D.C.
- Feyrer, K., 2015, *Wire Ropes Tension, Endurance, Reliability*, 2nd Springer Heidelberg New York



- Fukuyama, H., and Sugano, S., 2000, Japanese Seismic Rehabilitation of Concrete Buildings after the Hyogoken-Nanbu Earthquake, *Cement & Concrete Composites* (22) pp. 59-79
- Ghannoum, W. 2007, Experimental and analytical dynamic collapse study of a reinforced concrete frame with light transverse reinforcement. *Doctoral dissertation*. Berkeley, CA: University of California at Berkeley.
- Ghobarah, A., Attar, M.E., and Aly, M.M., 2000, Evaluation of Retrofit Strategies for Reinforced Concrete Columns: a Case Study, *Engineering Structures*, pp. 490-501
- Ghobarah, A., Saatcioglu, .M., and Nistor, I., 2006, The Impact of the 26 December 2004 Earthquake and Tsunami on Structures and Infrastructure, *Engineering Structures* (28), pp. 312-326.
- Hachem M. M., Mahin, S.A., and Moehle J.P. 2003, Performance of Circular Reinforced Concrete Bridge Columns under Bidirectional Earthquake Loading, Report No. *PEER 2003/06, Pacific Earthquake Engineering Research Center*, University of California at Berkeley, 490 pp.
- Hassoun, M.N., and Al-Munaseer, A., 2008, *Structural Concrete Theory and Design*, John Wiley and Sons, INC. New Jersey, USA.
- Hines, E.M., Restrepo, J.I., and Seible, F., 2004, Force-Displacement Characterizations of Well-Confined Bridge Piers, *ACI Structural Journal*, 101(4), pp. 537-548
- Ichinose, I., 1992, A Shear Design Equation for Ductile R/C Members, *Earthquake Engineering and Structural Dynamic* Vol. 21, pp. 197-214
- Irsyam, M., Sangara, I W., Aldiamar, F., Widiyantoro, S., Triyoso, W., Natawidjaja, D.H., Kertapati., E., Meilano, I., Suharjo, Asrurifak, Ridwan, M., 2000, *Ringkasan Hasil Studi Tim Revisi Peta Gempa Indonesia Bandung*.
- Japan Society of Civil Engineers JSCE, 2007, *Standard Specifications for Concrete Structures Design*, Japan Society of Civil Engineers, Tokyo
- Karabinis, A.I., and Kioussis, P.D., 1994, Effects of Confinement on Concrete Columns: Plasticity Approach, *Journal of Structural Engineering*, ASCE, V.120, No.9, September, pp.2747-2767
- Kato, D., and Ohnishi, K. 2002, Axial load carrying capacity of R/C columns under lateral load reversals. *Third US-Japan Workshop on Performance-*



Based Earthquake Engineering Methodology for Reinforced Concrete Building Structures, pp. 247-255

- Kazemi, M.T., and Morshed, R., 2005, Seismic Shear Strengthening of Columns with Ferrocement Jacket, *Cement & Concrete Composites*, 27, pp.834-842.
- Kent, D.C., and Park, R., 1971, Flexural Members with Confined Concrete, *Journal of the Atructural Devision*, Proc. Of American Society of Civil Engineers, 97(ST17), pp.1969-1990.
- Kumar, P.R., Oshima, T., Mikami, S., and Yamazaki, T., 2007, Studies on RC and Ferrocement Jacketed Columns Subjected to Simulated Seismic Loading, *Asian Journal of Civil Engineering (Building and Housing)*, Vol. 8. No.2, 215-225pp.
- Legeron, F., and Paultre, P., 2003, Uniaxial Confinement Model for Normal and High Strength Concrete Columns, *Journal of Structural Engineering ASCE*, V.129, No.2, February, pp.241-252.
- Li, B., Park, R., and Tanaka, H., 2001, Stress-Strain Behavior of High Strength Concrete Confined by Ultra-High and Normal Strength Transverse Reinforcements, *ACI Structural Journal*, V.98, No.3, May-June, pp.395-406.
- Lignola, G.P., ----, RC Hollow Members Confined with FRP: Experimental Behavior and Numerical Modeling, *Ph.D Thesis*, Univ. of Napoli "Federico II".
- Lynn, A.C., 2001, Seismic Evaluation of Existing Reinforced Concrete Building Columns, *Ph.D Dissertation*, Dep. Of Civil and Environmental, Univ. Of California, Berkeley.
- Lokuge, W.P., Sanjayan, J.G., and Satunge, S., 2005, Stress-Strain Model for Laterally Confined Concrete, *Journal of Materials in Civil Engineering, ASCE*, November-December, pp. 607-616.
- Luccionia, B.M., and Rougier V.C., 2005, A Plastic Damage Approach for Confined, *Computers and Structures* 83 (2005) pp.2238–2256
- Madas, P., and Elnashai, A.S., (1992), A New Passive Confinement Model for the Analysis of Concrete Structures Subjected to Cyclic and Transient Dynamic Loading, *Earthquake Engineering and Structural Dynamic*, Vol.-21, pp. 409-431



- Maekwa, K., and An, X., 2000, Shear Failure and Ductility of RC Columns after Yielding of Main Reinforcement, *Engineering Fracture Mechanics*, 65(2-3), pp.335-368
- Mander, J.B., 1983, Seismic Design of Bridges, *Dissertation Doctor in Civil Engineering* at the University of Cantenbury, Christchurch, New Zealand.
- Mander, J.B., Priestley, M.J., and Park, R., (1988), Theoretical Stress – Strain Model for Confined Concrete, *Journal of Structural Engineering*, ASCE, V.114, No.8, August 1988, pp.1804-1826.
- Mangkoesebroto, S. P., 2009, Paandg Earthquake of September 30, 2009 Why it is so devastating, *Seminar and Pameran HAKI 2010*
- Miki, T., and Niwa, J., 2004, Nonlinear Analysis of RC Structural Using 3D Lattice Model, *Journal of Advanced Concrete Technology*, Vol. 2. 343-358pp
- Moretti, and Tassios, T.P., 2007, Behaviour of Short Columns Subjected to Cyclic Shear Displacements: Experimental Results, *Engineering Structures* V.29 pp. 2018-2029
- Moehle, J.P., Elwood, K.J., and Sezen, H., 2001, Gravity Load Collapse of Building Frame during Earthquake, *PEER Report 2001*, Berkeley USA
- Mostafaei, H., Vecchio F., and Kabeyasawa, T. 2009, Deformation capacity of reinforced concrete columns. *ACI Structural Journal*, 106(2), 187-195.
- Nizam, and Mardjono, F., 2006, Evaluation of School Buildings in Jogya and Jateng Subjected to 27th May Earthquake – the hard lessons, *Prosiding : Earthquake Engineering and Infrastructure & Building Retrofitting, Yogyakarta*.
- Pan, Z., and Li, B., 2013, Truss-Arch Model for Shear Strength of Shear-Critical Reinforced Concrete Columns, *Journal of Structural Engineering*, ASCE 139(4), pp. 548-560
- Pantelides, C. and Yan, Z. 2007, Confinement Model of Concrete with Externally Bonded FRP Jackets or Posttensioned FRP Shells, *J. Struct. Eng.*
- Park, H.G., Yu, E.J., and Choi, K.K., 2012, Shear-Strength Degradation Model for RC Columns Subjected to Cyclic Loading, *Engineering Structures* (34), pp. 187-197
- Park, R., and Paulay, T., 1975, *Reinforced Concrete Structures*, John Wiley & Sons, USA.



- Park, R., and Paulay, T., 1990, Bridge Design and Research Seminar 1990, *RRU Bulletin 84*, Volume 1: Strength and Ductility of Concrete Substructures of Bridges, Transit New Zealand
- Paulay, T., and Priestley, M.J.N., 1992, *Seismic Design of Reinforced Concrete and Masonry Structures*, John Wiley & Sons, Inc.
- Paultre, P., Legeron, L., and Mongeau, D. (2001), Influence of Concrete Strength and Transverse Reinforcement Yield Strength on Behavior of High Strength Concrete Column, *ACI Structural Journal*, V.98, No.4, pp.490-501.
- Pedoman Perencanaan Ketahanan Gempa Untuk Rumah Dan Gedung*, SKBI-1.3.53.1987 UDe : 699.841 / SNI 1726-1989-F. Departemen Pekerjaan Umum, Bandung, Indonesia.
- Perez, M., and Pantazopoulou, S.J., 1998, Mechanics of Concrete Participation in Cyclic Shear Resistance of RC, *Journal of Structural Engineering*, 124(6), pp. 633-641.
- Phan, V., Saiidi, M.S., Anderson, J., and Ghasemi, H., 2007, Near-Fault Ground Motion Effect on Reinforced Concrete Bridge Columns, *Journal of Structural Engineering*, ASCE, July, pp. 982-989.
- Popovics, S, (1973), A Numerical Approach to the Complete Stress-Strain Curve of Concrete, *Cement and Concrete*, 3(5), pp.583-599
- Priestley, M.J.N., Verma, R., and Xiao, Y., 1994, Seismic Shear Strength of Reinforced Concrete Columns, *Journal of Structural Engineering*, ASCE, 120(8), pp. 2310-2329.
- Priestley, M.J.N., Calvi, G.M., and Kowalsky, M.J., 2007, *Displacement-Based Seismic Design of Structures*, IUSS Press, Pavia, Italy.
- Priestley, M.J.N., Seible F., and Calvi, G.M., 1996, *Seismic Design and Retrofit of Bridges*, John Wiley & Sons, Inc, Canada.
- Priestley, M. J. N., and Park R., 1987, Strength and Ductility of Concrete Bridge Columns Under Seismic Loading, *ACI Structural Journal*, V.84, (1), pp. 61-76.
- Richart, F.E., Brandtzaeg, A., and Brown, R.L., 1929, The Failure Of Plain and Spirally Reinforced Concrete in Compression, *Bulletin No. 190*, University of Illinois
- Saenz, N., and Pantelides, C. P. 2007, Strain-based confinement model for FRP-confined concrete, *Journal of Structural Engineering*, 133(6), pp.825-833.



- Sasani, M., 2004, Shear Strength and Deformation Capacity Models for RC Columns, *13th World Conference on Earthquake Engineering, Vancouver, Canada*, p(1838).
- Saatcioglu, M., and Razvi, S.R., 1992, Strength and Ductility of Confined Concrete *Journal of Structural Engineering*, ASCE, V.118, No.6, June, pp.1590-1607.
- Saatcioglu, M., and Yalcin, C., 2003, External Prestressing of Concrete Columns for Improved Seismic Resintance, ASCE, *Journal of Structural Engineering*, ASCE, August, 1057-1070pp.
- Sakai, K., and Sheikh, S.A., 1989, What Do Know about Confinement in Reinforced Concrete Columns ? (A Critical Review of Previous Work and Code Provisions. *ACI Structural Journal*, V.86, No.2, March-April 1989, pp.192-207.
- Sargin, M., (1971), Stress-Strain Relationship for Concrete and the Analysis of Structural Concrete Section, *Ph.D. thesis*, Univ. of Waterloo, Ontario, Canada
- Seidel, M., 2009, *Tensile Surface Structures: A Practical Guide to Cable and Membrane Construction*, Ernst & Sohn, Berlin, Germany
- Sezen, H., 2002, Seismic Behavior and Modeling of Reinforced Concrete Building Columns. *Dissertation Doctor of Philosophy*, University of California, Berkeley, USA.
- Sezen, H., and Moehle, J., 2004, Shear Strength Model for Lightly Reinforced Concrete Columns, *Journal of Structural Engineering*, ASCE, 130(11), pp.1692-1703
- Shekh, S.A., and Uzumeri, S.M., 1982, Analytical Model for Concrete Confinement in Tied Columns, *Journal of the Structural Division*, 108, (12) pp. 2703-2722
- Sim, J and Yang, K.H., 2009, Flexural Behaviour of Reinforced Concrete Columns Strengthened with Wire Rope and T-Plate Units, *ACI Structural Journal*, 106(5), pp. 697-705
- SNI 03-2834-2002, 2002, *Tata Cara Pembuatan Rencana Campuarn Beton Normal*, Baand Standardisasi Nasional
- SNI 0076, 2008, *Tali Kawat Baja*, ICS 77.140.65, Baand Standardisasi Nasional, BSN Jakarta



- Spoelstra, M.R., and Monti, G., 1999, FRP Confined Concrete Model, *Journal of Composites for Construction*, ASCE, 3(3), pp 143-150
- Suhendro, B., 2000, *Teori Model Struktur dan Teknik Experimental*, Bahan Kuliah Program Pasca Sarjana Teknik Sipil dan Lingkungan, UGM, Yogyakarta
- Sun, Y.P., Oba, T., Tian, F.S., and Ikeda, T., 1996, Confinement Effect of Transverse hoops in High-Strength Concrete, *11th WCEE*.
- Suzuki, M., Akiyama, M., Hong, K., Cameron, I.D., and Wang, W.L., 2004, Stress-Strain in Model of High-Strength Concrete Confined by Rectangular Ties, *13th World Conference on Earthquake Engineering*, Vancouver, B.C., Canada, August, Paper No. 3330
- Tan, T.H., and Nguyen, N.B. 2005, Flexural Behavior of Confined High Strength Concrete Column, *ACI Structural Journal*, V.102, No.2, pp.198-205.
- Thermou, G.E., Pantazopoulou, S.J., and Elnashai, A.S., 2007, Flexural Behaviour of Brittle RC Members Rehabilitated with Concrete Jacketing, *Journal of Structural Engineering ASCE*, 133(10), pp 1373-1384
- Widodo, 2007, Kerusakan Bangunan pada Gempa Yogyakarta 27 Mei 2006: Akibat kebelum jelasan Code, Sosialisasi atau Pelaksanaan, *Seminar and Pameran HAKI 2007*
- Yang, K.H., Byun, H.Y., and Ashour, A.F., 2009, Shear Strengthening of Continuous Reinforced Concrete T-Beams Using Wire Rope Units, *Engineering Structures*, 31, pp 1154-1165.
- Yarandi, M.S., Saatcioglu, M., and FOO, S., 2004, Rectangular Concrete Columns Retrofitted by External Prestressing for Seismic Shear Resistance, *13th World Conference on Earthquake Engineering*, Vancouver, B.C., Canada.
- Ye, L., Yue, Q., Zhao, S., and Li, Q., 2002, Shear Strength of Reinforced Concrete Columns Strengthened with Carbon-Fiber Reinforced Plastic Sheed, *Journal of Structural Engineering ASCE*, 28.(12). pp. 1527-1534