

REFERENCIAS BIBLIOGRÁFICAS

ACI (American Concrete Institute). "ACI Building Code Requirements for Reinforced Concrete". ACI 318-95, 1995.

Adebar, P., Collins, M.P. (1996). "Shear strength of members without transverse reinforcement". Canadian Journal of Civil Engineering, Vol. 23, 1996, pp. 30-41.

Ahmad, S. H., Khaloo, A. R. and Poveda, A. (1986). "Shear Capacity of Reinforced High-Strength Concrete Beams". ACI Journal, Proceedings, Vol. 83, No 2, March-April 1986, pp. 297-305.

Ambroise, J., Chabannet, M., Rols, S. y Pera, J., "Basic properties and effects of starch on self-levelling concrete", Intl. RILEM Symp. on The Role of Admixtures in High Performance Concrete, Ed. J.G. Cabrera y Rivera-Villareal, 1999, pp. 377-386.

Anderson, B.G. (1957). "Rigid Frame Failures". ACI Journal, Proceedings, Vo. 53, Jan. 1957, pp. 625-636.

Angelakos, D. (1999). "The influence of the concrete strength and longitudinal reinforcement ratio on the shear strength of large-size reinforced beams with and without transverse reinforcement". M.A.Sc. Thesis, Department of Civil Engineering, University of Toronto, 1999, 181 pp.

Aparicio, A.C., Calavera, J., and Del Pozo, F.J (1997). "Plan de investigación sobre las compresión máxima en bielas, por esfuerzo cortante para vigas prefabricadas de hormigón pretensado con armaduras pretensas". Ensayos FEDECE, Madrid, Noviembre 1997.

ASCE-ACI Committee 426 (1973). "The shear strength of reinforced concrete beams". Journal of Structural Engineering, v. 99, no. 6, June 1973, pp. 1091-1187.

ASCE-ACI Committee 445 (1998). "Recent approaches to shear design of structural concrete". Journal of Structural Engineering, v. 124, no. 12, December 1998, pp. 1375-1417.

Bartos, P.J.M., "Key properties of fresh self-compacting concrete: a case for standardisation", Seminar on Self-Compacting Concrete (Malmö, Suecia), 2000, pp. 21-26.

Bartos, P.J.M., "Fresh concrete properties and tests", Editorial: Elsevier Science Publishers B.V., 1992.

Bazant, Z.P., and Oh, B.H. (1983). "Crack band theory for fracture of concrete". RILEM, 16(93), oo. 155-177.

Bazant, Z.P., and Kim, J-K. (1984). "Size effect in shear failure of longitudinally reinforced beams". ACI Journal, vol. 81, no. 5, Sep-Oct. 1984, pp. 456-468.

Beaupré, D. y Mindess, S., "rheology of fresh concrete: principles, measurement and applications", Materials Science of Concrete V, Ed. J. Skalny, S. Mindess y M. Cohen, Editorial: American Ceramic Society, 1998, pp. 149-190.

Bennenk, H.W., "SCC and the new era for the precast concrete industry", 1st Intl. RILEM Symp. on Self-Compacting Concrete, Ed. A. Skarendahl y Ö. Petersson, Editorial RILEM Publicaciones S.A.R.L., Cachan, Francia, 1999, pp. 695-704.

Berlabi, A., and Hsu, T.T.C. (1994). "Constitutive laws of concrete in tension and reinforcing bars stiffened by concrete". ACI Structural Journal, 91(4), pp. 465-474.

Berlabi, A. and Hsu, T.T.C. (1995). "Constitutive Laws of Softened Concrete in Biaxial Tension-Compression". ACI structural Journal, v. 92, no. 5, Sept-Oct 1995, pp. 562-573.

Botte, J., Burdin, J. y Zermatten, M., "SCC tunnel applications: cleuso dixence prject and loetschberg basis tunnel, Switzerland", 1st Intl. RILEM Symp. on Self-Compacting Concrete, Ed. A. Skarendahl y Ö. Petersson, Editorial RILEM Publicaciones S.A.R.L., Cachan, Francia, 1999, pp. 681-694.

Campion, M.J. y Jost, P., "Self-compacting concrete, expanding the possibilities of concrete design and placement", Concrete International, vol. 22, no. 4, 2000, pp. 31-34.

CEB/FIP (1978). "CEB/FIP model code for concrete structures". International system of unified standard codes of practice for structures, Comité Euro-International du Béton, Paris, Vol. II.

CEB/FIP (1990). "Código Modelo CEB-FIP 1990 para hormigón estructural", (E-4). Traducción Española de GEHO. Colegio de Ingenieros de Caminos, C. y P. /GEHO/ATEP, 1995.

Cladera, A., "Shear design of reinforced high-strength concrete beams", Tesis Doctoral del mismo autor, UPC, Departamento Ingeniería de la Construcción, Barcelona, 2002.

Cladera, A., and Marí, A.R. (2001). "Estudio experimental de la resistencia a cortante en vigas de hormigón armado de alta resistencia". Ensayos experimentales de la tesis doctoral del primer autor, ETSECCPB, UPC.

Cladera, A., and Marí, A.R. (2001). "ELU de cortante en vigas: aproximación histórica y verificación experimental del tratamiento de la EHE". Hormigón y Acero, nos. 221-222, pp. 43-61, 3^o y 4^o trimestre 2001.

Collins, M.P. (1978), "Toward a rational theory for RC members in shear". J. Struct. Div., ASCE, 104(4), 649-666.

Collins, M.P., Mitchell, D., Adebar, P.E., and Vecchio, F.J. (1996). "A general shear design method". *ACI Structural Journal*, Vol. 93, No. 1, January-February 1996, pp. 36-45.

Collins, M.P. and Mitchell, D. (1997). "Prestressed concrete structures". Ed. Response Publication, Toronto and Montreal, Canada, 766 pp.

Collins, M.P., Kuchma, D. (1999). "How safe are our large, lightly reinforced concrete beams, slabs and footings?". *ACI Structural Journal*, vol. 96, no.4, July-August 1999, pp. 482-490.

Comisión permanente del hormigón. "Instrucción de Hormigón Estructural EHE". Ministerio de Fomento, 1999.

Concrete Society Technical Report 49 (1998). "Design guidance for high strength concrete". United Kingdom, 1998.

CSA (Canadian Standards Association) (1994). "Design of Concrete Structures". CSA A23.3-94, Dec. 1994, 200 pp.

Duthinh, D, Carino, N.J. (1996). "Shear design of high-strength concrete beams: a review of the state-of-the-art". Building and Fire Research Laboratory. National Institute of Standards and Technology.

Elstner, R.C., and Hognestad, E. (1957). "Laboratory Investigation of Rigid Frame Failure". *ACI Journal, Proceedings* V. 53, No. 1, Jan. 1957, pp. 637-668.

Elzanaty, A.H., Nilson, A.H. and Slate, F.O. (1986). "Shear Capacity of Reinforced concrete Beams using High-Strength Concrete". *ACI Journal, Proceedings*, Vol. 83, No. 2, March-April 1986, pp. 290-296.

Emborg, M., "Rheology tests for self-compacting concrete – How useful are they for the design of concrete mix for full-scale production", 1st Intl. RILEM Symp. on Self-Compacting Concrete, Ed. A. Skarendahl y Ö. Petersson, Editorial RILEM Publicaciones S.A.R.L., Cachan, Francia, 1999, pp. 95-107.

Fenwick, R.C., and Paulay, T. (1968). "Mechanism of shear resistance of concrete beams". *Journal of the Structural Division, ASCE*, v. 94, no. 10, pp. 2325-2350.

Gomes, P., Gettu, R. y Agulló, L., "El hormigón autocompactable. Propiedades y métodos de caracterización", *Hormigón y Acero*, nos. 221-222, 3º y 4º trimestre de 2001, pp. 27-37.

Gupta, P., and Collins, M.P. (1993). "Behaviour of reinforced concrete members subjected to shear and compression". Report, Department of Civil Engineering. University of Toronto, Canada.

Hamadi, Y.D., and Regan, P.E. (1980). "Behavior in shear of beams with flexural cracks". *Magazine of Concrete Research*, v. 32, no. 1, pp. 67-77.

- Hayawaka, M., Matsouka, Y. y Shindoh, T., "Development and application of super-workable concrete", *Special Concretes Workability and Mixing*, Ed. P.J.M. Bartos, Editorial: E & FN Spon, Londres, 1993, pp. 183-190.
- JSCE-F503, "Method of test for the slump flow of concrete", Standards of Japan Society of Civil Engineers, 1990.
- Kani, G. N. J. (1964). "The riddle of shear failure and its solution". *ACI Journal*, v. 61, no. 4, pp. 441-467.
- Kani, M.W., Huggins, M.W., and Wiltkopp, P.F. (1979). "Kani on shear in reinforced concrete". Department of Civil Engineering, Univeristy of Toronto, Canada, 225 pp.
- Kawai, T. y Hashida, H., "Fundamental research on the rheological properties of super workable concrete", *Japan Concrete Institute*, vol. 16, no. 1, 1994, pp. 125-130.
- Khayat, K.H. y Guizani, Z., "Use of viscosity-modifying admixture to enhance stability of fluid concrete", *ACI Mater, J.*, vol. 94, no. 4, 1997, pp. 332-340.
- Khayat, K.H. y Yahia, A., "Effect og welan gum-high-range water reducer combinations on rheology of cement grout", *ACI Mater, J.*, vol. 94, no. 4, 1997, pp. 365-372.
- Kim, J.K., and Park, Y.D. (1994). "Shear strength of reinforced high-strength concrete beams without web reinforcement". *Magazine of Concrete Research*, vol. 46, March 1994.
- Kulkarni, S.M., and Shah, S.P. (1998). "Response of reinforced concrete beams at high strain rates". *ACI Structural Journal*, vol. 95, no. 6, Nov-Dec. 1998, pp. 705-715.
- Lee, J-Y., Watanabe, F. (2000). "Shear design of reinforcement concrete beams with shear reinforcement considering failures modes". *ACI Structural Journal*, vol. 97, no. 3, May-June 2000, pp. 477-483.
- Leonhardt, F. And Walther, R. (1961). "The Stuttgart shear tests 1961". *Cement and Concrete Association Library Translation*, no. 111, London.
- MacGregor, J.G., and Bartlett (2000). "Reinforced concrete: mechanics and design". 1st Canadian Edition, Ed., Prentice Hall Canada Inc., Scarborough, Ontario, 1992, 1041 pp.
- Maeda, M.K., Yamada, K. y Uchida, A., "Evaluation of the practicability of SCC", 1st Intl. RILEM Symp. on Self-Compacting Concrete, Ed. A. Skarendahl y Ö. Petersson, Editorial RILEM Publicaciones S.A.R.L., Cachan, Francia, 1999, pp. 617-628.
- Mitchell, D., and Collins, M.P. (1974). "Diagonal compression field theory- A rational model for structural concrete in pure torsion". *ACI Journal*, v. 71, August 1974, pp. 396-408.
- Mörsch, E. (1909). "Concrete-steel construction". McGraw-Hill, New york. (English translation by E.P. Goodrich of *Der Eisenbetobau*, 1st ed, 1902).

- Mörsch, E. (1920). "Reinforced concrete construction- Theory and application". 5th Ed, Wittwer, Stuttgart, vol. 1, Part 1.
- Mörsch, E. (1922). "Reinforced concrete construction- Theory and application". 5th Ed, Wittwer, Stuttgart, vol. 1, Part 2.
- Nagai, T., Kojima, T. y Miura T., "Application of high-strength/superworkable concrete to thin-wall prestressed concrete products", *Mag. Concr. Res.*, vol. 51, no. 3, 1999, pp. 153-162.
- Nielsen, M.P., and Braestrup, N.W. (1975). "Plastic shear strength of reinforced concrete beams". *Tech. Rep. 3, Bygningsstatistiske Meddelelser*, vol. 46.
- Okamura, H., "Self-compacting high-performance concrete", *Concrete International*, Vol. 19, no. 7, 1997 pp. 50-54.
- Okamura, H. y Ouchi, M., "Self-compacting concrete development, present use and future", 1st Intl. RILEM Symp. on Self-Compacting Concrete, Ed. A. Skarendahl y Ö. Petersson, Editorial RILEM Publicaciones S.A.R.L., Cachan, Francia, 1999, pp. 3-14.
- Ouchi, M., Ed., *Proc. Second International Symposium in Self-Compacting Concrete (Tokio, Japón)*, RILEM Publicaciones S.A.R.L., Cachan, Francia, 2001.
- Ouchi, M., Hibino, M, y Okamura, H., "Effect of superplasticizer on self-compactability of fresh-concrete", *Transportation Research Record*, no. 1574, 1997, pp. 37-40.
- Ozawa, K., Maekawa, K. y Okamura, H., "High performance concrete with high filling capacity", *Admixtures for Concrete: Improvement of properties*, Ed. E. Vázquez, 1990, pp. 51-63.
- Ozawa, K., Sakata, N. y Okamura, H., "Evaluation of self compactibility of fresh concrete – Using the funnel test", *Japan Society of Civil Engineers*, vol. 23, no. 490, 1994, pp. 71-80.
- Ozcebe, G., Ersoy, U., and Tankut, T (1999). "Evaluation of minimum shear reinforcement requirements for higher strength concrete". *ACI Journal*, vol. 96, no.3, May-June 1999, pp. 361-368.
- Petersson, Ö., Billberg, P. y Van, B.K., "A model for self-compacting concrete", *Production Methods and Workability of Concrete*, Ed. P.J.M. Bartos, D.L. Marris y D.J. Cleand, Editorial: E & FN Spon, Londres, 1996, pp. 483-492.
- Petersson, Ö., "Design of self-compacting concrete, properties of the fresh concrete", *Seminar on Self-Compacting Concrete (Malmö, Suecia)*, 2000, pp. 15-20.
- Regan, P. (1993). "Research on shear: a benefit to humanity or a waste of time?". *The Structural Engineer*, vol. 71, no. 19, October 1993, pp. 337-347.

Reineck, K.H. (1991). "Ultimate shear force of structural concrete members without transverse reinforcement derived from a mechanical model". *ACI Structural Journal*, v. 88, no. 5, Set-Oct. 1991, pp. 592-602.

Ritter, W. (1899). "Die bauweise hennebique". *Shweizerische Bauzeitung*, 33(7), pp. 59-61.

Salandra, M.A., and Ahmad, S.H. (1989). "Shear capacity of reinforced lightweight high-strength concrete beams". *ACI Journal*, v. 86, no. 6, Nov-Dec. 1989, pp. 697-704.

Schlaich, J., Schafer, K., and Jennewein, M. (1987). "Toward a consistent design of structural concrete". *PCI Journal*, v.32, no. 3, May-June 1987, pp. 74-150.

Sedran, T. y De Larrard, F., "Optimization of self-compacting concrete thanks to packing model", 1st Intl. RILEM Symp. on Self-Compacting Concrete, Ed. A. Skarendahl y Ö. Petersson, Editorial RILEM Publicaciones S.A.R.L., Cachan, Francia, 1999, pp. 321-332.

Sedran, T., De Larrard, F., Hourst, F. y Contamines, C., "Mix design of self-compacting concrete", Intl. RILEM Production Methods and Workability of Concrete, Ed. P.J.M. Bartos, D.L. Marrs y D.J. Cleand, Editorial: E & FN Spon, Londres, 1996, pp. 439-450.

Shioya, T., Iguro, M., Nojiri, Y., Akiyama, H., and Okada, T. (1989). "Shear strength of large reinforced concrete beams, fracture mechanics. Application to concrete". SP-118, ACI, Detroit, pp. 259-279.

Skarendahl, A. y Petersson, Ö., Ed., "First Intl. Symposium on Self-Compacting Concrete", Editorial RILEM Publicaciones S.A.R.L., Cachan, Francia, 1999.

Talbot, A.N. (1909). "Test of reinforced concrete beams: resistance of web stresses series of 1907 and 1908". Bull. 29, University of Illinois, Engineering Experiment Station, Urbana, Ill.

Taniguchi, H., Harada, K. y Ushijima, S., "Study on properties of fluidity of mortar and concrete for super workable concrete", Japan Cement Association, no. 48, 1994, pp. 750-755.

Taylor, H.P.J. (1974). "The fundamental behavior of reinforced concrete beams in bending and shear". ACI SP-42, Detroit, pp. 43-77.

Umehara, H., Hamada, D., Yamamuro, H y Oka, S., "Development and usage of self-compacting concrete in precast concrete field", 1st Intl. RILEM Symp. on Self-Compacting Concrete, Ed. A. Skarendahl y Ö. Petersson, Editorial RILEM Publicaciones S.A.R.L., Cachan, Francia, 1999, pp. 705-716.

Vecchio, F.J. and Collins, M.P. (1982). "The response of reinforced concrete to in-place shear and normal stresses". Pub 82.03, Dept. of Civil Engineering, University of Toronto, March 1982, 332 pp.

Vecchio, F.J. and Collins, M.P. (1986). "The modified compression field theory for reinforced concrete elements subjected to shear". *ACI Structural Journal*, vol. 83, no. 2, Mar-Apr. 1986, pp. 219-231.

Vecchio, F.J. (2000). "Disturbed stress field model for reinforced concrete: formulation". *Journal of Structural Engineering*, v. 126, no. 9, September 2000, pp. 1070-1077.

Vecchio, F.J. (2001). "Disturbed stress field model for reinforced concrete: implementation". *Journal of Structural Engineering*, v. 127, no. 1, January 2001, pp. 12-20.

Vecchio, F.J., Lai, D., Shim, W., and Ng, J. (2001). "Disturbed stress field model for reinforced concrete: validation". *Journal of Structural Engineering*, v. 127, no. 4, April 2001, pp. 350-358.

Wagner, H. (1929). "Metal beams with very thin webs". *Zeitschrift für Flugtechnik und Motorluftschiffahrt*, vol. 20, nos. 8 to 12, 1929, Berlin.

Walraven, J.C. (1981). "Fundamental analysis of aggregate interlock". *Journal of the Structural Division, Proceedings of the ASCE*, vol. 107, no. ST11, November, 1981, pp. 2245-2270.

Walther, R. (1958). "The shear strength of prestressed concrete beams". 3rd Congress of FIP, Berlin 1958.

Watanabe, F., and Lee, J.Y. (1998). "Theoretical prediction of shear strength and failure mode of reinforced concrete beams". *ACI Structural Journal*, vol. 95, no. 6, Nov-Dec. 1998, pp. 749-757.

Yoon, Y.S., Cook, W.D., and Mitchell, D. (1996). "Minimum shear reinforcement in normal, medium and high-strength concrete beams". *ACI Structural Journal*, vol. 93, no. 5, September-October 1996, pp. 576-584.

Zsutty, T.C. (1968). "Beam shear strength prediction by analysis of existing data". *ACI Journal, Proceedings*, vol. 65, no. 11, Nov. 1968, pp. 943-951.