

REFERENCES

- AASHTO TP 95, 1995. *Standard Method of Test for Surface Resistivity of Concrete's Ability to Resist Chloride Ion Penetration*. Washington DC: American Association of State Highway and Transportation Officials.
- ACI318-11, 2011. Building Code Requirements for Structural Concrete (ACI 318-11). American Concrete Institute.
- Agustini, N.a.T.A., 2017. ANALISIS PENGARUH JENIS DAN TEBAL SPRAY APPLIED MATERIALS FIREPROOFING TERHADAP KETAHANAN API BALOK BAJA. *Jurnal Teknik Sipil*.
- ASTM C469, 2015. *Standard Test Method for Static Modulus of Elasticity and Poisson's Ratio of Concrete*. American Society for Testing and Materials.
- Azarsa, P. & Gupta, R., 2017. Electrical Resistivity of Concrete for Durability Evaluation: A Review. *Advance in Materials Science and Engineering*, 2017.
- Banea, P.I.I., 2015. *Study of Electrical Resistivity of Mature Concrete*.
- Bazant, Z.P., Kaplan, M.F. & Bazant, Z.P., 1996. *Concrete at High Temperatures: Material Properties and Mathematical Models*. London : Addison-Wesley.
- Bošnjak, J., Ožbolt, J. & Hahn, R., 2013. Permeability measurement on high strength concrete without and with. *Cement and Concrete Research*, 53, pp.104-11.
- BS1881-203, 1986. Recommendations for measurement of velocity of ultrasonic pulses in concrete. In *Testing concrete. Recommendations for measurement of velocity of ultrasonic pulses in concrete*. BSI.
- Castillo, C. & Durrani, A.J., 1990. Effect of Transient High Temperature on High-Strength Concrete. *ACI Materials Journal*, 87(1), pp.47-53.
- Chan, Y.N., Luo, X. & Sun, W., 2000. Compressive strength and pore structure of high-performance concrete after exposure to high temperature up to 800°C. *Cement and Concrete Research*, 30(2), pp.247-51.
- Chan, Y.N., Peng, G.F. & Anson, M., 1999. Residual strength and pore structure of high-strength concrete and normal strength concrete after exposure to high temperatures. *Cement and Concrete Composites*, pp.23-27.

- Felicetti, R. & Gambarova, P.G., 1998. Effects of High Temperature on the Residual Compressive Strength of High-Strength Siliceous Concrete. *ACI Materials Journal*, 95, pp.395-405.
- Furumura, F., Abe, T. & Shinohara, Y., 1995. Mechanical Properties of High Strength Concrete at High Temperatures. In *Fourth Weimar Workshop on High strength Concrete: Material Properties and Design*. Weimar, Germany, 1995. Hochschule für Architektur und Bauwesen (HAB).
- Fu, Y., Wong, Y., Poon, C. & Tang, C., 2005. Stress-strain behaviour of high-strength concrete at elevated temperatures. *Magazine of Concrete Research*, 57(9), pp.535-44.
- Hager, I., 2014. Colour Change in Heated Concrete. *Fire Technology*, 50, pp.945-58.
- Hammer, T.A., 1995. *HIGH-STRENGTH CONCRETE PHASE 3, Compressive Strength and Emodulus at Elevated Temperatures*. SINTEF Structures and Concrete.
- Hertz, K., 1984. *Heat Induced Explosion of Dense Concretes*. Report No.166. Denmark: Technical University of Denmark Institute of Building Design.
- Huisman, S., Weise, F., Meng, B. & Scheneider, U., 2012. Influence of Polypropylene Fibres on the Thermal Strain of High Strength Concrete at High Temperature. *Materiaux et Constructions*, 45(5), pp.793-801.
- Indian Standard, 1992. *Non-Destructive Testing of Concrete Methods of Test: Part 1 Ultrasonic Pulse Velocity*. New Delhi: Bureau of Indian Standards.
- Janotka, I. & bagel, L., 2002. Pore Structures, Permeabilities, and Compressive Strength of Concrete at Temperatures up to 800°C. *ACI Materials Journal*, 99, pp.196-200.
- Jin, W.-l. & Zhang, Y., 2007. Fire's Effect on Chloride Ingress Related Durability of Concrete Structure. *Journal of Zhejiang University-SCIENCE A*, 8(5), pp.675-81.
- JIS A 1149, 2017. *Method of Test for Static Modulus of Elasticity of Concrete*. Japanese Standards Association (JSA).
- JSCE, 2007. *Standard Specifications for Concrete Structures "Materials and Construction"*.
- Khaliq, W. & Kodur, V.R., 2011. Effect of High Temperature on Tensile Strength of Different Types of High-strength Concrete. *ACI Materials Journal*, 108(4), pp.394-402.

- Khoury, G., 2000. Effect of Fire on Concrete and Concrete Structures. *Progress in Structural Engineering and Materials*, pp.429-47.
- Kodur, V., 2004. Spalling in High Strength Concrete Exposed to Fire: Concerns, Causes, Critical Parameters and Cures. In *Advanced Technology in Structural Engineering.*, 2004. American Society of Civil Engineers (ASCE).
- Kodur, V., 2014. Properties of Concrete at Elevated Temperature. *ISRIN Civil Engineering*.
- Kodur, V.K.R., Cheng, F.-P., Wang, T.-C. & Sultan, M.A., 2003. Effect of Strength and Fiber Reinforcement on Fire. *Journal of Structural Engineering*, 129(2), pp.253-59.
- Kodur, V.K.R. & Sultan, M.A., 2003. Effect of Temperature on Thermal Properties of High-Strength Concrete. *Journal of Materials in Civil Engineering*, 12(2), pp.101-07.
- Kucharczykova, B., Misak, P. & Vymazal, T., 2010. The Air Permeability Measurement by Torrent Permeability Tester. In *Modern Materials, Structures and Techniques*. Lithuania, 2010.
- Li, Z., 2011. *Advance Concrete Technology*. New Jersey: John Wiley & Sons, Inc.
- Li, Y.-H. & Frassen, J.-M., 2011. Test Result and Model for the Residual Compressive Strenght of Concrete After a Fire. *Journal of Structural Fire Engineering*, 2, pp.30-44.
- Malakooti, A., 2017. *Investigation of Concrete Electrical Resistivity as A performance Based Test*. Utah: All Graduate Theses and Dissertation.
- Morita, T., Saito, H. & Kumagai, H., 1992. *Residual mechanical properties of HSC members exposed to high temperature-Part 1: Test on material properties*. Summaries of Annual Meeting. Niigata: Architectural Institute of Japan.
- Neno, T., Ivica, B. & Bernardin, P., 2013. Reduction of Postfire Properties of High-Strength Concrete. *Advances in Materials Science and Engineering*.
- Neville, A.M., 2011. *Properties of Concrete*. England: Pearson Education Limited.
- Noumowe, A.N., Siddique, R. & Debicki, G., 2009. Permeability of High-performance Concrete Subjected to Elevated Temperature (600°C). *Construction and Building Materials*, 29, pp. 1855–1861.
- Partowiyatmo, A., 1996. Efek Kebakaran pada Koonstruksi Beton Bertulang. *Majalah Konstruksi*, Februari.

- Phan, L., 2002. High-Strength Concrete at High Temperature – An Overview. In *Symposium on Utilization of High Strength/High Performance Concrete.*, 2002.
- Phan, L.T. & Carino, N.J., 2002. Effect of Test Conditions and Mixture Proportion on Behaviours of High-Strength Concrete Exposed to High Temperatures. *ACI Materials Journal*, 99, pp.54-66.
- Phan, L.T. & Carino, N.J., 2003. Code Provisions for High Strength Concrete Strength-temperature Relationship at Elevated Temperature. *Materials and Structures*, 36, pp.91-98.
- Phan, L.T., Lawson, J.R. & Davis, F.L., 2001. Effects of Elevated Temperature Exposure on Heating Characteristics, Spalling, and Residual Properties of High Performance Concrete. *Materials and Structures*, 34, pp.83-91.
- Phan, L., n.d. Spalling and Mechanical Properties of High Strength Concrete at High Temperature. France.
- Polder, R.B., 2001. Test Methods for On Site Measurement of Resistivity of Concrete - a RILEM TC-154 Technical Recommendation. *Construction and Building Materials*, 15(2-3), pp.125-31.
- Poon, C.-S., Azhar, S., Anson, M. & Wong, Y.-L., 2001. Strength and Durability Recovery of Fire-Damaged Concrete after Post-fire-curing. *Cement and Concrete Research*, 31(9), pp.1307-18.
- Pujianto, A., 2010. beton Mutu Tinggi dengan Bahan Tambah Superplastisizer dan Fly Ash. *Jurnal Ilmiah Semesta Teknika*, 13(2), pp.171-80.
- Romer, M., 2005. Comparative test - Part I - Comparative test of 'penetrability' methods. *Materials and Structures*, 38, pp.895-906.
- Schneider, U., 1988. Concrete at High Temperatures - A General Review. *Fire Safety Journal*, 13(1), pp.55-68.
- Supartono, F., 1998. Beton Berkinerja Tinggi dan Keterikatannya dengan Pembangunan Nasional Memasuki Abad 21. In *Seminar Material Konstruksi*. Jakarta, 1998. Universitas Indonesia.
- Sutapa, A.A.G., 2016. *Kekuatan Tekan Kolom Pendek Pasca Pembakaran*. Bali: Department of Civil Engineering, Udayana University.
- Torrent, R.J., 1992. A Two-chamber Vacuum Cell for Measuring the Coefficient of Permeability to Air of The Concrete Cover on Site. *Materials and Structures*, 25(6), pp.358-65.

- Torrent, R. & Frenzer, G., 1995. A Method for The Rapid Determination of The Coefficient of Permeability of The "Covercrete". *International Symposium Non-Destructive Testing in Civil Engineering (NDT-CE)*, pp.985-92.
- Xiaong, Y., Deng, S. & Wu, D., 2016. Experimental Study on Compressive Strength Recovery Effect of Fire-damaged High Strength Concrete After Relaksation Treatment., 2016.
- Yan, X., Li, h. & Wong, Y.-L., 2007. Assessemrnt and Repair of Fire-Damaged High-Strength Concrete: Strength and Durability. *Journal of Materials in Civil Engineering*, 19(6), pp.462-69.