

## DAFTAR PUSTAKA

- Abshor, K., 2016, Pengaruh Cacat Beton Terhadap Kekuatan Sinyal Pantul Gelombang Ultrasonik, Skripsi, Fakultas Matematika Dan Ilmu Pengetahuan Alam, Universitas Gadjah Mada, Sleman
- Al-Nu'man, B. S. , Aziz, B. R. , Abdulla, S. A. , & Khaleel, S. E. (2016). Effect of Aggregate Content on the Concrete Compressive Strength – Ultrasonic Pulse Velocity Relationship. *American Journal of Civil Engineering and Architecture*, 4(1), 1-5.
- Anggraeni, H.S., Susilo, E.E., dan Wedhanto, S., 2013, Perbandingan Kekuatan Beton Berdasarkan Hasil Ultrasonic Pulse Velocity Test dengan Uji Tekan, Konferensi Nasional Teknik Sipil 7, Surakarta
- Anonim, 2005, Mutu beton dan Kuat Tekanan, Puslitbang Prasarana Transportasi Divisi 7, Departemen PU.
- Arefin, M. S., Mollick, T., 2013, Design Of an Ultrasonic Distance Meter, <http://www.ijser.org/paper/Design-of-an-Ultrasonic-Distance-Meter.html> , diakses pada 25 September 2016.
- Depok Instrumens, 2016, Ultrasonic Sensor/ Tranducer, <https://depokinstruments.com/2016/01/17/ultrasonic-sensortransducer/>, diakses pada 13 September 2016.
- Bzeni, D. K., dan Ihsan, M. A., 2001, Estimating Strength of SCC using Non-Destructive Combined Method, Third International Confrence on Sustainable Construction Materials and Technologies.
- Evangelista, 2003, Parameters that Influence the Result of Non Destructive Test Methods for Concrete Strength.
- Ridho, F., dan Khoeri, H., 2015, Perbandingan Mutu Beton Hasil UPVT Metode Indirect terhadap Mutu Beton Hasil Hammer Test Dan Core Drill, Public Knowledge Project, Teknik Sipil Universitas Muhammadiyah Jakarta.
- Hamidian, M., Shariati, A., Khanouki, M.M.A., Sinaei, H., Toghroli, A., dan Nouri, K., 2012, Application of Schmidt rebound hammer and ultrasonic pulse velocity techniques for structural health monitoring, *Scientific Research and Essays*, Scientific Research and Essays, No.21, Vol. 7, Hal.1997 – 2001
- International Atomic Energy Agency, Vienna. (2002). Guidebook of ondestructive testing of concrete structures, Training Course Series No. 17.

- Ikhsan, K., 2015, Sistem Deteksi Kecacatan Benda Padat Menggunakan Gelombang Ultrasonik, Skripsi, Fakultas Matematika Dan Ilmu Pengetahuan Alam, Universitas Gadjah Mada, Sleman, Yogyakarta.
- Kee, S.H. dan Zhu, J., 2013, Using Piezoelectric Sensors for Ultrasonic Pulse Velocity Measurements in Concrete, *Smart Materials and Structures*, 22, 1–11.
- Lawson, K.A. Danso, H.C. Odoi, C.A. Adjei, F.K. Quashie, I.I. Mumuni, dan I.S. Ibrahim. (2011). Non Destructive Evaluation of Concrete using Ultrasonic Pulse velocity research. *Journal of Applied Sciences, Engineering and Technology* 3(6), h: 499-504, 2011.ISSN: 2040-7467. Maxwell Scientific Organization.
- Mahmoudipour, M., 2009, Statistical case study on schmidt hammer, Ultrasonic and Core Compression strength test Results Performed on Cores obtained from Behbahan Cement Factory in Iran. 5th International Workshop of NDT Experts.
- Malhotra, & Carino, 2004, Handbook On Nondestructive Testing Of Concrete.
- Mindess, S., Young, J. F., Darwin, D, 2003, Concrete; Second Edition, Upper Saddle River, Pearson Education Inc, New Jearsey.
- Mochalin, J. P., 1998, Application of Wave Mixing in Photorefractive Materials to Laser Ultrasonics, Cleo, Friday Afternoon, 75 Bd de Mortagne, National Research Council, Canada.
- Nugroho, B., 2008, Hubungan Kecepatan Gelombang Ultrasonik dan Kuat Tekanan pada Berbagai Variasi Mutu Beton Menggunakan Material Lokal Yogyakarta, Tesis S-2, Sekolah PascaSarjana, Jurusan Teknik Sipil, Fakultas Teknik Universitas Gadjah Mada.
- Lauw, T ., 2015, Pengelompokan Beton, <http://lauwtjunnji.weebly.com/pengelompokan-beton.html> diakses pada 15 September 2016
- Pascale, 2000, Evaluation of Actual Compressive Strength of High Strenght Concrete. Bologna, Italy.
- Simatupang, R. M., Nuralinah, D., dan Remayanti, C., 2016, Korelasi Kuat Tekan Beton Antara Hammer Test, Ultrasonic Pulse Velocity (UPV) Dan Compression Test, *Rekayasa Sipil, Teknik Sipil Universitas Brawijaya*, No. 1, vol. 10
- Soedarjo, 1996, Pengujian Model Cacat pada Logam Alumunium dengan Metode Ultrasonik, Prosiding presentasiilmiah daur bahan bakar nuklir 2, Batan , Jakarta.

- Budio, S.P., Wijaya, M.N., Arifi, E., and Dewanti, P., 2016, Koreksi pembacaan Ultrasonic Pulse Velocity (UPV) terhadap Kesalahan Akibat ketidakstabilan Posisi Transduser, Teknik Sipil Universitas Brawijaya, No. 1, vol. 10
- Subiyanto, L., & Tri, A. S., 2012, Deteksi Cacat pada Material Baja Menggunakan Ultrasonik Non-Destructive Testing dengan Metode Continuous Wavelet Transform, Seminar Nasional Teknologi dan Komunikasi Terapan, Semarang.
- Sutan, 2003, Comparison Between Langsung and Indirect Method Of Ultrasonic Pulse Velocity in Detecting Concrete Defect.
- Wedanto, S., 2015, Penggunaan Metode Ultrasonic Pulse Velocity Test Untuk Memperkirakan Kekuatan Dan Keseragaman Mutu Beton K 200 Secara Non Destructif, Jurnal Bangunan, No. 1, vol.
- Sidiq, T.N.S., Rouf, A., and Supardi, T.W., 2016, Sistem Deteksi Bentuk Kecacatan Benda Padat Menggunakan Teknik Variasi Sudut Ultrasonik, IJEIS (Indonesian J. Electron. Instrum. Syst., No. 1, vol. 6
- Waluyo, S., 2007, Introduction to Ultrasonic Testing SD 218, PT. Multi Kharisma Perkasa