

DAFTAR PUSTAKA

- American Society of Mechanical Engineers. (2021). *ASME Boiler and Pressure Vessel Code, Section IX – Welding and brazing qualifications*. ASME.
- American Welding Society (AWS). (2020). *Structural Welding Code Steel (AWS D1.1/D1.1M:2020)*. American Welding Society.
- Ashok Reddy, K. (2017). *Non-Destructive Testing, Evaluation of Stainless Steel Materials*. *Materials Today Proceedings*, 4(8), 7302–7312. <https://doi.org/10.1016/j.matpr.2017.07.060>
- ASTM International. (2023). *ASTM A370-23 – Standard Test Methods And Definitions For Mechanical Testing Of Steel Products*. ASTM International.
- ASTM International. (2021). *ASTM C39/C39M-21a – Standard Test Method For Compressive Strength Of Cylindrical Concrete Specimens*. ASTM International.
- ASTM International. (2019). *ASTM E1742-19 – Standard Practice For Radiographic Examination*. ASTM International.
- ASTM International. (2018). *ASTM E23-18 – Standard Test Methods For Notched Bar Impact Testing Of Metallic Materials*. ASTM International.
- ASTM International. (2018). *ASTM E165/E165M-18 – Standard Practice For Liquid Penetrant Testing For General Industry*. ASTM International.
- ASTM International. (2017). *ASTM E94-17 – Standard Guide For Radiographic Examination*. ASTM International.
- ASTM International. (2015). *ASTM E709-15 – Standard Guide For Magnetic Particle Testing*. ASTM International.
- ASTM International. (2015). *ASTM E114-15 – Standard Practice For Ultrasonic Pulse-Echo Straight-Beam Examination By The Contact Method*. ASTM International.

- ASTM International. (2014). *ASTM E290-14 – Standard Test Methods For Bend Testing Of Material For Ductility*. ASTM International.
- Badan Standardisasi Nasional. (2020). *SNI 1729:2020: Spesifikasi Untuk Bangunan Gedung Baja Struktural*. Jakarta: Badan Standardisasi Nasional.
- Badan Standardisasi Nasional. (2006). *SNI 07-0053-2006: Batang Kawat Baja Karbon Rendah*. Jakarta: Badan Standardisasi Nasional.
- Badan Standardisasi Nasional. (2008). *SNI 2835:2008: Tata Cara Perhitungan Harga Satuan Pekerjaan Tanah Untuk Konstruksi Bangunan Gedung Dan Perumahan*. Jakarta: Badan Standardisasi Nasional.
- Cai, D., Zou, C., Sun, Z., Zhou, Q., Fu, Y., & Li, G. (2015). *The Influence Of Coupling Layer Thickness On Hollow Axles Ultrasonic Testing*. Proceedings 2015 International Conference on Control Automation and Robotics Iccar 2015, 143–147. <https://doi.org/10.1109/ICCAR.2015.7166019>
- Chen, H. X., & Yang, S. Q. (2014). *Simulation Of Ultrasonic Detection Of Natural Defects In Weld With Finite Element Analysis*. In Applied Mechanics and Materials (Vols. 602–605). <https://doi.org/10.4028/www.scientific.net/AMM.602-605.1590>
- Darsono, F. B., Setiyawan, A., Huda, K., Fitriyana, D. F., Widodo, R. D., Rusiyanto, Nurdin, A., Koin, S. T., Thomas, A. K., & Mulyono, T. (2024). *Visual Inspection and Non-Destructive Test (NDT) on ASTM A36 Welded Joints Produced by GMAW*. International Journal of Integrated Engineering, 16(5), 114–125. <https://doi.org/10.30880/ijie.2024.16.05.010>
- Deepak, J. R., Bupesh Raja, V. K., Srikanth, D., Surendran, H., & Nickolas, M. M. (2021). *Non-Destructive Testing (NDT) Techniques For Low Carbon Steel Welded Joints: A Review And Experimental Study*. Materials Today Proceedings, 44, 3732–3737. <https://doi.org/10.1016/j.matpr.2020.11.578>
- Gauthier, B. D. (2007). *Visual Inspection Techniques: A Guide For NDT And Quality Control*. ASNT Press.
- Hafida, K., Ramdane, B., dan Rachid, C. (2022). *Application of Continuous Improvement Tools to Welding Processes: Case of ENGTP*. IJETAE, 12 (4), 200.

- International Institute of Welding. (2015). *Guidelines For The Qualification Of Welding Personnel*. International Institute of Welding.
- International Organization for Standardization. (2021). *ISO 3834:2021 – Quality Requirements For Fusion Welding Of Metallic Materials*. International Organization for Standardization.
- Iskandar, B. (2015). *Teknologi Pelabuhan: Konsep dan Aplikasi*. Jakarta: Penerbit Universitas Indonesia.
- Kementerian Ketenagakerjaan Republik Indonesia. (2018). *Modul Pelatihan Kompetensi Penetrant Test Terbitan C.24LAS01.034.01*. Jakarta: Kemnaker.
- Kementerian Perhubungan Republik Indonesia. (2020). *Laporan Pengembangan Pelabuhan Patimban*. Jakarta: Kemenhub.
- Kementerian Pekerjaan Umum dan Perumahan Rakyat. (2022). *Peraturan Menteri Pekerjaan Umum dan Perumahan Rakyat Nomor 1 Tahun 2022 tentang Pedoman Penyusunan Perkiraan Biaya Pekerjaan Konstruksi Bidang Pekerjaan Umum dan Perumahan Rakyat*. Jakarta: KemenPUPR.
- Kim, M.-Y., Chu, D.-J., Shim, J.-H., Jung, W.-S., & Lee, Y.-K. (2019). *Residual Lifetime Assessment Of Cold-Reheater Pipe In Coal-Fired Power Plant Through Accelerated Degradation Test*. *Reliability Engineering and System Safety*, 188, 330–335. <https://doi.org/10.1016/j.ress.2019.03.043>
- Kusuma, R., & Riyadi, B. (2020). *Pengaruh Keselarasan Axis Terhadap Kinerja Dermaga*. *Jurnal Teknik Sipil*, 12(2), 45-59.
- Lincoln Electric. (2017). *The Procedure Handbook Of Arc Welding (14th ed.)*. Lincoln Electric Company.
- Liso, A., Cardellicchio, A., Patruno, C., Nitti, M., Stella, E., & Renò, V. (2023). *AWANDT: Assessing Welding Anomalies Via Non-Destructive Tests*. *Proceedings of SPIE the International Society for Optical Engineering*, 12621. <https://doi.org/10.1117/12.2673651>

- Madhvacharyula, A. S., Chitral, S., Venkaiah, N., Kiran, D. V., Pavan, A. V. S., & Gorthi, S. (2022). *In Situ Detection Of Welding Defects: A Review*. *Welding in the World*, 66(4), 611–628. <https://doi.org/10.1007/s40194-021-01229-6>
- Miller Electric Mfg. LLC. (2018). *Miller – Guidelines For Shielded Metal Arc Welding (SMAW)*. Diakses pada 11 April 2025, dari <https://www.millerwelds.com/>
- Miller Electric Mfg. LLC. (2018). *Miller – Guidelines For Gas Metal Arc Welding (GMAW)*. Diakses pada 11 April 2025, dari <https://www.millerwelds.com/>
- Park, S., Bokhari, I., Alnuaimi, H., Amjad, U., Fleischman, R. B., & Kundu, T. (2024). *Early Detection Of Steel Tube Welded Joint Failure Using Spc-I Nonlinear Ultrasonic Technique*. *Structural Health Monitoring*, 24(1), 148-163.
- Patrón, A., Cremona, C., Hoehler, S., Johansson, B., Larsson, T., & Maksymowicz, M. (2006). *Improved Assessment Methods For Static And Fatigue Resistance Of Metallic Railway Bridges In Europe*. *Proceedings of the 3rd International Conference on Bridge Maintenance Safety and Management Bridge Maintenance Safety Management Life Cycle Performance and Cost*, 751–753. <https://doi.org/10.1201/b18175-318>
- Penta Toyo Rinkai PP Wika Jakon. (2021). *Bid Documents for Package 6: Container Terminal No.2 Construction Volume II Technical Specifications*. PTRPWJ
- Ren, J., Yue, Y., Zhang, X., Yang, Z., Liu, Z., Ma, J., Dong, Y., Liu, C., & Ma, J. (2025). *Investigation of Welding-Induced Residual Stresses in a Herringbone Column Using the Blind Hole Technique: An Experimental and Numerical Study*. *Buildings*, 15(3). <https://doi.org/10.3390/buildings15030398>
- Rosado, L. S., Piedade, M., Santos, T. G., Vilaça, P., & Ramos, P. M. (2010). *Advanced Technique For Non-Destructive Testing Of Friction Stir Welding Of Metals*. *Measurement Journal of the International Measurement Confederation*, 43(8), 1021–1030. <https://doi.org/10.1016/j.measurement.2010.02.006>
- Rusdin, R. and Lobo, O. B. (2024). *Pelatihan Welding Smaw 1g Dan 2f Pada Masyarakat Kelompok Nelayan Guna Meningkatkan Keterampilan Kompetensi Di Kabupaten FakFak*. *JMM (Jurnal Masyarakat Mandiri)*, 8(1), 797.

- Savio, A. and Leman, S. (2021). *Simulasi Perbandingan Titik Jepit Tiang Menggunakan Virtual Fixed Point Dan Lateral Spring Di Dermaga “knp”*. JMTS: Jurnal Mitra Teknik Sipil, 4(3), 789.
- Setiati, N. R. and Guntorojati, I. (2020). *Earthquake Hazard Mitigation Analysis Of The Pier 231 Harbour Road Bridge*. E3S Web of Conferences, 156, 05001.
- Setyowati, V. A. and Suheni, S. (2016). *Variasi Arus Dan Sudut Pengelasan Pada Material Austenitic Stainless Steel 304 Terhadap Kekuatan Tarik Dan Strukturmakro*. Jurnal IPTEK, 20(2), 29.
- Terán, H. C., Arteaga, O., Alcocer, F. S., Richard, N. R., Stalin, M. P., & Eduardo, C. A. (2019). *Application Of Multiple Methods Of Ndt For The Evaluation Of Welded Joints In A Steel Bridge Astm-A-588*. In Solid State Phenomena (Vol. 287). <https://doi.org/10.4028/www.scientific.net/SSP.287.8>
- Tseng, K.-H., Chu, S.-W., Huang, C.-L., Wang, C.-M., & Jain, A. (2023). *Artificial Intelligence Based Vision Inspection For Manufacturing Industries*. Proceedings 2023 6th International Symposium on Computer Consumer and Control Is3c 2023, 346–348. <https://doi.org/10.1109/IS3C57901.2023.00099>
- Wei, H., & Lina, L. (2021). *Application Of Non-Destructive Testing Technology In Construction Steel Structure Industry*. Journal of Physics Conference Series, 2011(1). <https://doi.org/10.1088/1742-6596/2011/1/012039>
- Weman, K. (2011). *Welding Processes Handbook (2nd Ed.)*. Woodhead Publishing.
- Zam, Z. Z. and Putrawan, I. M. (2020). *Evaluasi Kebijakan Pengelolaan Lingkungan Pertambangan Di Pulau Obi Provinsi Maluku Utara*. Jurnal Ilmiah Pendidikan Lingkungan Dan Pembangunan, 21(02), 58-68.
- Zhao, R., Chen, W., Zhang, B., Badar, J., & Khan, M. A. (2025). *An Advanced Non-Destructive Inspection Method For Early Detection Of Damage In Welds Using Phased Array Ultrasonic Testing*. In Mechanisms and Machine Science: Vol. 175 MMS. https://doi.org/10.1007/978-3-031-81673-4_45
- Zhou, C., Liu, S., Huang, F., Huang, Q., Yan, A., & Luo, G. (2022). *Weld Defect Detection and Recognition System Based on Static Point Cloud Technology*. In Lecture Notes in Computer Science Including Subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics: Vol. 13606 LNAI. https://doi.org/10.1007/978-3-031-20503-3_50