

DAFTAR PUSTAKA

- [1] A. N. Fitriani, *INSPEKSI CACAT PADA SAMBUNGAN LAS PELAT BAJA KARBON RENDAH MENGGUNAKAN MAGNETIC INDUCTION TOMOGRAPHY DENGAN SENSOR PLANAR 2 CHANNEL*. Cilegon, 2016.
- [2] A. Y. Saputra, *KARAKTERISASI DESAIN SENSOR MAGNETIC INDUCTION TOMOGRAPHY UNTUK INSPEKSI JENIS CACAT LAS PADA UNIVERSITAS SULTAN AGENG TIRTAYASA CILEGON - BANTEN*. Cilegon, 2024.
- [3] Mulyadi, Iswanto, Jamaluddin, M. Nashrullah, and A. Y. Prajati, *Buku Ajar Teknologi Pengelasan*. 2015.
- [4] T. Endramawan, E. Haris, F. Dionisius, and Y. Prika, “Analisa Hasil Pengelasan SMAW 3G Butt Joint Menggunakan Non Destructive Test Penetrant Testing (NDT-PT) Berdasarkan Standar ASME,” *Politeknik Negeri Indramayu*, pp. 8–12, 2017.
- [5] S. P. P. Warman, “ANALISIS FAKTOR PENYEBAB CACAT PENGELASAN PADA PIPA (Study Kasus Pada Pipa Distribusi PDAM Kabupaten Kutai Barat),” *Jurnal Mekanikal*, vol. 8, no. 2, pp. 730–736, 2017.
- [6] S. Sahlan, “Analisis Cacat Las Incomplete Fusion Dan Retak Memanjang Pada Waterwall Tube Boiler PLTU Paiton Unit 1,” *Semesta Teknika*, vol. 18, no. 1, pp. 10–20, 2016, doi: 10.18196/st.v18i1.701.
- [7] S. A. Rizvia and W. Alib, “Welding defects , Causes and their Remedies : A Review,” vol. 2, no. 2, pp. 39–47, 2019.
- [8] F. Kurniadi, F. Handoko, and T. Priyasmanu, “ANALISIS WELDING DEFECT”RATE DAN PENANGANANNYA DENGAN”METODE”SIX SIGMA”DAN FMEA (STUDI KASUS: PT. MEINDO ELANG INDAH, MUARA JAWA, KUTAI KARTANEGARA, KALTIM),” *Jurnal Valtech*, vol. 5, no. 1, pp. 15–24, 2022.
- [9] S. Sulaiman, B. Utomo, and I. P. A. Ardi Wijana, “Analisis Uji Tidak Merusak Pada Sambungan Las Lambung Frame 103 Bagian Kamar Mesin

- Kapal Patroli 73 Dengan Metode Radiography Test,” *Gema Teknologi*, vol. 20, no. 4, pp. 146–152, 2020, doi: 10.14710/gt.v20i4.28516.
- [10] F. Widyawati and L. Marano, “Identifikasi Cacat Lasan Fcaw Pada Fondasi Mesin Kapal Menggunakan Metode Ultrasonic Testing,” *Jurnal TAMBORA*, vol. 5, no. 2, pp. 53–58, 2021, doi: 10.36761/jt.v5i2.1124.
- [11] A. A. Supriyanto and Syafrizal, “Penentuan Cacat Dengan Metode Ultrasonic Testing,” *Jurnal Ramatekno*, vol. 2, no. 1, pp. 7–13, 2022, [Online]. Available: <https://ejournal.pei.ac.id/index.php/JRT1/article/view/33>
- [12] D. Bina, S. Kompetensi, and D. A. N. Pelatihan, “BUKU INFORMASI MELAKUKAN ULTRASONIC TEST (UT),” 2018.
- [13] R. Rais, “STUDI PERBANDINGAN KECEPATAN DAN KETELITIAN PENGUJIAN MAGNETIC PARTICLE TESTING (MT) DAN EDDY CURRENT TESTING (ECT) PADA MATERIAL BAJA KARBON,” *TUGAS AKHIR – MN 141581*, pp. 1–69, 2015.
- [14] A. Alexandri and T. Sugandika, “Magnetic Particle Inspection (Mpi) Sebagai Salah Satu Metode Inspeksi Menara Pengeboran,” *Forum Teknologi*, vol. 07, no. 1, pp. 76–91, 2017.
- [15] B. Yunianto, P. Wicaksana, J. Sudharto, K. UNDIP Tembalang, and J. Tengah, “Analisis Cacat Hasil Pengelasan Pada Pipa ASTM A106 Grade B Menggunakan Magnetic Particle Test dan Liquid Penetrant Test di Workshop Las dan Inspeksi PPSDM Migas Cepu,” *Jurnal ROTASI*, vol. 25, no. 2, pp. 54–60, 2023.
- [16] L. Pardede, W. Hendroprasetyo, and A. Putra, “Analisa Perbandingan Sensitivitas Metode Magnetic Partikel Inspection (MPI) Menggunakan Metode Visible Dry, Visible Wet, dan Wet Fluorescent Terhadap Pendeteksian Panjang Retak pada Permukaan dan Toe Sambungan Las di Kapal yang Dilapisi Nonconductive Coat,” *Jurnal Sains dan Seni ITS*, vol. 4, no. 1, pp. 103–111, 2015.
- [17] T. Endramawan, E. Haris, F. Dionisius, and Y. Prika, “APLIKASI NON DESTRUCTIVE TEST PENETRANT TESTING (NDT-PT) UNTUK ANALISIS HASIL PENGELASAN SMAW 3G BUTT JOINT,” *Jurnal*

Teknologi Terapan, vol. 3, no. September, pp. 44–48, 2017.

- [18] I. Suharyadi, “METODE HIGH FREQUENCY ELECTRICAL RESISTANCE WELDING PADA PROSES PEMBUATAN PIPA BAJA STKM 13B,” pp. 12–22.
- [19] Y. G. Wicaksono, H. F. Rahmatullah, R. Artika, S. Ismarwanti, and R. Sigit, “SIMULASI UJI TAK MERUSAK PELAT ELEMEN BAKAR PASCA IRADIASI MENGGUNAKAN METODE PENETRANT TEST,” *Jurnal Ilmiah Daur Bahan Bakar Nuklir*, vol. 28, no. 3, pp. 143–152, 2022.
- [20] S. R. Sulistiyanti, S. Purwiyanti, and G. A. Pauzi, *Sensor dan Prinsip Kerjanya*, vol. 6, no. 1. 2017. [Online]. Available: <http://repositorio.unan.edu.ni/2986/1/5624.pdf><http://fiskal.kemenkeu.go.id/ejournal><http://dx.doi.org/10.1016/j.cirp.2016.06.001><http://dx.doi.org/10.1016/j.powtec.2016.12.055><https://doi.org/10.1016/j.ijfatigue.2019.02.006><https://doi.org/10.1>
- [21] E. . Kriezis, T. Tsiboukis, S. M. Panas, and A. Tegopoulos, “Eddy Currents : Theory and Applications,” no. June, 2013, doi: 10.1109/5.168666.
- [22] A. Suseno, T. Prayuda, and H. Akbar, “Analisis Kemampuan Pendeteksi Pengujian Eddy Current terhadap Crack Toe pada Sambungan Tee Material Aluminium 5083 yang Dilapisi Non-Conductive Coating dengan Variasi Kedalaman dan Panjang Crack,” *Jurnal Teknik ITS*, vol. 10, no. 2, pp. 14–21, 2021.
- [23] D. U. Suwarno, “Alat Peraga Efek Arus Eddy Dengan Menggunakan Piringan Magnet Berputar,” *PROSIDING SNIPS 2016*, pp. 268–274, 2016.
- [24] P. Chandra and R. Bhagi, “Basics Eddy Current Testing : Basics,” no. May, 2014.
- [25] S. Johanes, W. Hendroprasetyo, and A. Putra, “Analisis Kemampuan Pendeteksian Pengujian Eddy Current Testing (ECT) terhadap Crack pada Bollard dengan Bahan Casting,” vol. 10, no. 1, pp. 36–43, 2021.
- [26] H. Y. Wei and A. J. Wilkinson, “Design of a sensor coil and measurement electronics for magnetic induction tomography,” *IEEE Transactions on Instrumentation and Measurement*, vol. 60, no. 12, pp. 3853–3859, 2011, doi: 10.1109/TIM.2011.2147590.

- [27] H. Wei and M. Soleimani, "A Magnetic Induction Tomography System for Prospective Industrial Processing Applications," *Chinese Journal of Chemical Engineering*, vol. 20, no. 2, pp. 406–410, 2012, doi: 10.1016/S1004-9541(12)60404-2.
- [28] M. Saiful, B. Mansor, Z. Zakaria, and S. Sahlan, "Magnetic Induction Tomography: A Brief Review Jurnal Teknologi Magnetic Induction Tomography: A Brief Review," no. November, 2015, doi: 10.11113/jt.v73.4252.
- [29] M. Al Huda, D. Haryono, H. Nugraha, A. N. Fitriani, and W. Purwo Taruno, "Characterization of Magnetic Induction Coil Sensor for VOID Detection in Steel Plate," *Proceeding - ICoSTA 2020: 2020 International Conference on Smart Technology and Applications: Empowering Industrial IoT by Implementing Green Technology for Sustainable Development*, no. 2, pp. 2–6, 2020, doi: 10.1109/ICoSTA48221.2020.1570610828.
- [30] A. J. Peyton, Z. Z. Yu, G. Lyon, and J. Ferreira, "An overview of electromagnetic inductance tomography: description of three different systems," no. March, 1996, doi: 10.1088/0957-0233/7/3/006.
- [31] Z. Cao, B. Ye, H. Cao, Y. Zou, Z. Zhu, and H. Xing, "Biplane Enhancement Coil for Magnetic Induction Tomography of Cerebral Hemorrhage," *Biosensors*, vol. 14, no. 5, 2024, doi: 10.3390/bios14050217.
- [32] C. *Multiphysics*, *The COMSOL Multiphysics Reference Manual*. 2015. [Online]. Available: www.comsol.com/blogs
- [33] Comsol, *Comsol Multiphysics User's Guides*, Version 4. United State, 2012.