

## DAFTAR PUSTAKA

- Adaramola, B. A., Kayode, J. F., Monye, S. I., & Afolalu, S. A. (2024). Overview of Maintenance Management Strategies in the Industry. *International Conference on Science, Engineering and Business for Driving Sustainable Development Goals, SEB4SDG 2024*. <https://doi.org/10.1109/SEB4SDG60871.2024.10629938>
- Akhtar, S., Rab Nawaz, H., Khan, A. A., Ul Abidin, Z., & Mustafa, G. (2024). *Introduction Review Review on Digitalization and Industry 4.0: Maintenance and Repair Operations (M.R.O.) with Predictive Approaches*.
- Amorim, B. S. (2025). *Predictive Maintenance in Stacker Cranes*.
- Amutenya, & Malakia. (2024). *The importance of Dry docking in the Maritime Industry DOUBLE DEGREE IN MARITIME ENGINEERING 2024*.
- Andri, R., & Nurdin, H. (2024). Analisis Tegangan Tarik Maksimum Wire rope pada Hoist Crane Kapasitas 3 Ton. *MASALIQ*, 4(2), 463–471. <https://doi.org/10.58578/masaliq.v4i2.2675>
- Ariani, F., & Pulungan, Bgd. S. P. N. (2025). Finite Element Analysis and Root Cause Analysis of Wire rope Failure in STS Cranes. *DINAMIS*, 13(2), 82–87. <https://doi.org/10.32734/dinamis.v13i2.22583>
- Cebada-Relea, A. J., López, M., & Aenlle, M. (2025). Fatigue damage in wire rope connections of modular floating breakwater arrays: A combined time- and frequency-domain approach. *Engineering Structures*, 344. <https://doi.org/10.1016/j.engstruct.2025.121313>
- Cicek, K., Turan, H. H., Topcu, Y. I., & Searslan, M. N. (2010). Risk-Based Preventive Maintenance Planning using Failure mode and Effect Analysis (FMEA) for Marine Engine Systems.
- Elata, D., Eshkenazy, R., & Weiss, M. P. (2004). The mechanical behavior of a wire rope with an independent wire rope core. *International Journal of Solids and Structures*, 41(5–6), 1157–1172. <https://doi.org/10.1016/j.ijsolstr.2003.11.021>
- Freddi, P., Solazzi, L., & Donzella, G. (2023). Prediction of Rope Bending Fatigue Life Based on Wire Breaking Rate. *FME Transactions*, 51(1), 59–70. <https://doi.org/10.5937/fme2301059F>
- Gürgen, S., & Ada, M. (2025). Riskassessment to improve reliability in towing system of tugboats using fuzzy based FMEA. *Brodogradnja*, 76(4). <https://doi.org/10.21278/brod76408>
- Hroncek, J., Marsalek, P., Rybansky, D., Sotola, M., Drahorad, L., Lesnak, M., & Fusek, M. (2023). Simplified Numerical MODEL for Determining Load-Bearing Capacity of Steel-Wire ropes. *Materials*, 16(10). <https://doi.org/10.3390/ma16103756>
- Indra Martadinata, M., Hariri, A., Amalia, D., Soleh, A. M., Suryan, V., Suprihartini, Y., & Penerbangan Palembang, P. (2025). RISK-BASED MAINTENANCE DENGAN METODE FAILURE MODE AND EFFECTS ANALYSIS (FMEA) UNTUK PENINGKATAN KEANDALAN SISTEM PENDINGIN UDARA DI GEDUNG KOMERSIL RISK-BASED MAINTENANCE WITH FAILURE MODE AND EFFECTS ANALYSIS (FMEA) METHOD TO IMPROVE THE RELIABILITY OF AIR CONDITIONING SYSTEMS IN COMMERCIAL BUILDINGS. *Journal of Information Technology and Computer Science (INTECOMS)*, 8(6).

- Jasiulewicz-Kaczmarek, M., & Gola, A. (2019). *Maintenance 4.0 Technologies for Sustainable Manufacturing - An Overview*. *IFAC-PapersOnLine*, 52(10), 91–96. <https://doi.org/10.1016/j.ifacol.2019.10.005>
- Kewalramani, S. (2023). *Automatic Process Control Valves in Floating Dry Docks*. In *NA International conference on Industrial Engineering and Operations Management*.
- Kubiś, B., Olszyna, G., Szade, P., & Tytko, A. (2023). *Fatigue Life of Compacted Wire ropes for Applications in Deep Mining*. *Management Systems in Production Engineering*, 31(1), 95–101. <https://doi.org/10.2478/mspe-2023-0012>
- Kumar, K., Goyal, D., & Banwait, S. S. (2020). *Effect of Key Parameters on Fretting Behaviour of Wire rope: A Review*. *Archives of Computational Methods in Engineering*, 27(2), 549–561. <https://doi.org/10.1007/s11831-019-09326-y>
- Lesňák, M., Maršálek, P., Horyl, P., & Pištora, J. (2020). *Load-bearing capacity MODElling and testing of single-stranded wire rope*. *Acta Montanistica Slovaca*, 25(2), 192–200. <https://doi.org/10.46544/AMS.v25i2.6>
- Liu, L., Liu, D., Wu, X., & He, Y. (2021). *Optimal structural patterns of multi-strand wire ropes*. *International Journal of Solids and Structures*, 225. <https://doi.org/10.1016/j.ijsolstr.2021.111070>
- Mazurek, P. (2023). *A Comprehensive Review of Steel Wire rope Degradation Mechanisms and Recent Damage Detection Methods*. In *Sustainability (Switzerland)* (Vol. 15, Number 6). MDPI. <https://doi.org/10.3390/su15065441>
- Mohammadi, H., Fazli, Z., Kaleh, H., Azimi, H. R., Moradi Hanifi, S., & Shafiee, N. (2021). *Risk Analysis and Reliability Assessment of Overhead Cranes Using Fault Tree Analysis Integrated with Markov Chain and Fuzzy Bayesian Networks*. *Mathematical Problems in Engineering*, 2021. <https://doi.org/10.1155/2021/6530541>
- Moriya, T., Hara, S., Yamakawa<sup>3</sup>, K., Hayasaki<sup>4</sup>, K., Okahata, S., & Kanbe<sup>6</sup>, R. (2008). *Study on Corrosion Degradation of Wire ropes in Sea Water*.
- Najeb, A., Almas, M., & Alobudi, A. (2023). *A Comparison Between Syncrolift and Floating Dry Dock*. *International Journal for Scientific Research*, 2(12), 37–49. <https://doi.org/10.59992/ijsr.2023.v2n12p2>
- Nijjaawan, N., & Nijjaawan, R. (2010). *Steel wire and chain. MODERn Approach to Maintenance in Spinning*, 223–241. <https://doi.org/10.1533/9780857094056.223>
- Palit, P., Kushwaha, S. K., Mathur, J., & Chaturvadi, A. K. (2019). *Life Cycle Assessment of Wire rope Used in Crane Application in a Steel Plant*. *Journal of Failure Analysis and Prevention*, 19(3), 752–760. <https://doi.org/10.1007/s11668-019-00655-5>
- Pamungkas, I., Tri Irawan, H., Basuki, M., Elba Ridha, A., Agam Syahputra, R., & Okta Widarta, F. (2023). *Metode Analisis Risiko Kerusakan Mesin Produksi di Indonesia: Literature Review*. In *Jurnal INVASI: Industri dan Inovasi* (Vol. 1). <http://jurnal.utu.ac.id/invasi/>
- Pangestuti, D. C., Nastiti, H., Husniaty, R., Program, S., Manajemen, F., Ekonomi, D., Bisnis, J. R., Fatmawati, P., Labu, J., & Selatan, I. (2022). *Analisis Risiko Operasional Dengan Metode FMEA*. 10(2), 177.

- Peng, H., Zhang, Y., Shangguan, L., Zhao, M., Li, B., Yang, L., & Liu, Y. (2025). *Review of Failure Mechanisms of Steel Wire ropes Under Heavy-Load Conditions and the Anti-Friction Effects of Gel-like Grease*. In *Gels* (Vol. 11, Number 11). Multidisciplinary Digital Publishing Institute (MDPI). <https://doi.org/10.3390/gels11110900>
- Polat, M., Köseleler, R., & Kilavuz, I. (2021a). EXPERIMENTAL INVESTIGATION OF BENDING *FATIGUE*, BREAKING LOAD AND *CORROSION* PERFORMANCE OF *STEEL WIRE ROPES* WITH *INDEPENDENT WIRE ROPE CORE*(IWRC) AND IMPREGNATED PLASTIC *CORE*(EPIWRC). *METAL 2021 - 30th Anniversary International Conference on Metallurgy and Materials, Conference Proceedings*, 417–422. <https://doi.org/10.37904/metal.2021.4145>
- Puji, N., Sumarsono, R., & Saptadi, S. (2025). *METODE FAILURE MODE AND EFFECT ANALYSIS (FMEA) DAN BOW TIE ANALYSIS UNTUK MENGETAHUI RISIKO PADA PROGRAM PESAWAT N219 (STUDI KASUS PT. DIRGANTARA INDONESIA)*.
- Rahman, F. (2025). Joint Optimization Of *Maintenance* and *Reliability* on *Pedestal Crane* Units to Improve Operational Efficiency. *Journal of Sustainable Development Innovations*, 2(4), 186–196. <https://doi.org/10.61552/jsi.2025.04.002>
- Rahman, F., Sugiono, S., As'ad Sonief, A., & Novareza, O. (2024). *APPLICATION OF PARETO ANALYSIS, CAUSE AND EFFECT ANALYSIS, AND FAILURE MODE AND EFFECT ANALYSIS (FMEA) ON THE MOBILE CRANE*.
- Rana Yosaka, A., & Basuki Institut Teknologi Adhi Tama Surabaya, M. (2022). Analisa Risiko Pembangunan *Barge Mounted Power Plant* (Bmpp) 60 Mw Di Pt. PAL Indonesia (Persero) Menggunakan Metode *Failure Mode and Effect Analysis* (Fmea) Dan Matrik Risiko. In *J. SEMITAN* (Vol. 1, Number 1). <https://ejurnal.itats.ac.id/semitan>
- SUCI, I. M. (2025). Redesigning the Construction of Graving *Dock Gate* to Get a More Optimal Design. *Maritime Park: Journal of Maritime Technology and Society*. <https://doi.org/10.62012/mp.vi.46023>
- Vukelic, G., & Vizentin, G. (2017). Damage-induced stresses and remaining service *life predictions* of *wire ropes*. *Applied Sciences (Switzerland)*, 7(1). <https://doi.org/10.3390/app7010107>
- Winarno, Priadi, A. A., & Wulandari, R. S. (2024). Shipbuilding *RiskAssessment*: Legal Frameworks and Practical Challenges in Indonesian Shipyards. *International Journal of Safety and Security Engineering*, 14(4), 1061–1072. <https://doi.org/10.18280/ijssse.140405>
- Xue, S., Shen, R., Shao, M., Chen, W., & Miao, R. (2019). *Fatigue failure Analysis* of *steel wire rope sling* based on share-splitting slip theory. *Engineering Failure Analysis*, 105, 1189–1200. <https://doi.org/10.1016/j.engfailanal.2019.07.055>
- Yaqin, R. I., Zamri, Z. Z., Siahaan, J. P., Priharanto, Y. E., Alirejo, M. S., & Umar, M. L. (2020). Pendekatan FMEA dalam Analisa Risiko Perawatan Sistem Bahan Bakar Mesin Induk: Studi Kasus di KM. Sidomulyo. *Jurnal Rekayasa Sistem Industri*, 9(3), 189–200. <https://doi.org/10.26593/jrsi.v9i3.4075.189-200>
- Yildirim, B., Kamidelivand, M., Dimitrov, N., & Kolios, A. (2026). *Failure mode riskprioritization for floating wind turbines: An expert-based FMEA framework from IEA wind task 49*. *Energy Reports*, 15. <https://doi.org/10.1016/j.egy.2026.109072>

- Yordanova, R., & Yankova, S. (2025). *EVALUATION OF THE MECHANICAL PROPERTIES OF STEEL WIRE ROPE DURING ITS OPERATION IN THE MINING INDUSTRY. Journal of Chemical Technology and Metallurgy*, 60(1), 163–172. <https://doi.org/10.59957/jctm.v60.i1.2025.16>
- Zhang, P., Jian, H., Yin, L., Liu, J., Cai, Z., & Tong, Y. (2024). *Corrosion Resistance and Mechanical Properties of Cr-Rich 316 Stainless Steel Coatings Fabricated by the TIG Process Using Flux-Cored Wires. Molecules*, 29(8). <https://doi.org/10.3390/molecules29081785>