

## REFERENCES

- Acernese, A., Del Vecchio, C., Tipaldi, M., Battilani, N., and Glielmo, L., 2020, Condition-based maintenance: an industrial application on rotary machines. *Journal of Quality in Maintenance Engineering*.
- Achkar, V. G., Cafaro, V. G., Méndez, C. A., and Cafaro, D. C., 2019, Discrete-Time MILP Formulation for the Optimal Scheduling of Maintenance Tasks on Oil and Gas Production Assets. *Industrial and Engineering Chemistry Research*, Vol.58, No.19, pp.8231–8245.
- Aiello, G., Benítez, J., Carpitella, S., Certa, A., Enea, M., Izquierdo, J., and La Cascia, M., 2020, A decision support system to assure high-performance maintenance service. *Journal of Quality in Maintenance Engineering*.
- Al-qadda, M. S., 2009, *Sabir Plant Shutdowns and Turnarounds , Scope Variation Practical Approach*. Open University Malaysia.
- Al-Turki, U., Duffuaa, S., and Bendaya, M., 2019, Trends in turnaround maintenance planning: literature review. *Journal of Quality in Maintenance Engineering*, Vol.25, No.2, pp.253–271.
- Al-Turki, U. M., Duffuaa, S. O., and Ben-Daya, M. A., 2013, A holistic system approach for turnaround performance management. *Maintenance Performance Measurement and Management, MPMM*, Vol.No.September,.
- Alardhi, M., and Labib, A. W., 2008, Preventive maintenance scheduling of multi-cogeneration plants using integer programming. *Journal of the Operational Research Society*, Vol.59, No.4, pp.503–509.
- Amaran, S., Sahinidis, N. V., Sharda, B., Morrison, M., Bury, S. J., Miller, S., and Wassick, J. M., 2015, Long-term turnaround planning for integrated chemical sites. *Computers and Chemical Engineering*, Vol.72, pp.145–158.
- Amaran, S., Zhang, T., Sahinidis, N. V., Sharda, B., and Bury, S. J., 2016, Medium-term maintenance turnaround planning under uncertainty for integrated chemical sites. *Computers and Chemical Engineering*, Vol.84, pp.422–433.
- Balasaheb Shahaji Gandhare, Milind M. Akarte, P. P. P., 2018, Maintenance performance measurement – a case of the sugar industry. *Journal of Quality in Maintenance Engineering*, Vol.24, No.1, pp.79–100.
- Ben-Daya, Mohamed ; Duffuaa, Salih O. ; Raouf , Abdul ; Knezevic, Jezdimir ; Ait-Kadi, D., 2009, *Handbook of Maintenance Management and Engineering*.

- Ben-Daya, M., Duffuaa, S. O., Knezevic, J., Ait-Kadi, D., and Raouf, A., 2009, *Handbook of maintenance management and engineering. Handbook of Maintenance Management and Engineering*.
- Berdahl, I. L., 2011, Turnaround strategy development - a case study. Retrieved from <http://brage.bibsys.no/xmlui/handle/11250/238028>
- Bertolini, M., Bevilacqua, M., Ciarapica, F. E., and Giacchetta, G., 2009, Development of Risk-Based Inspection and Maintenance procedures for an oil refinery. *Journal of Loss Prevention in the Process Industries*, Vol.22, No.2, pp.244–253.
- Bertolini, M., Mezzogori, D., and Zammori, F., 2019, Comparison of new metaheuristics, for the solution of an integrated jobs-maintenance scheduling problem. *Expert Systems with Applications*, Vol.122, pp.118–136.
- Bevilacqua, M., Braglia, M., Frosolini, M., and Montanari, R., 2005, Failure rate prediction with artificial neural networks. *Journal of Quality in Maintenance Engineering*, Vol.11, No.3, pp.279–294.
- Bida, A. A., 2017, *LAPORAN KERJA PRAKTEK DI PT . PUPUK KALIMANTAN TIMUR*.
- Bonczek, R. H., Holsapple, C. W., Whinston, A. B., and Schmidt, J. W., 1981, *Foundations of decision support systems*. Academic Press.
- Carter, M. W., Price, C. C., and Rabadi, G., 2019, *Operations Research A Practical Introduction*. CRC Press (Second Edi.). CRC Press.
- Deng, Q., Santos, B. F., and Verhagen, W. J. C., 2021, A novel decision support system for optimizing aircraft maintenance check schedule and task allocation. *Decision Support Systems*, Vol.146, No.September 2020, pp.113545.
- Dimitrios, E., and Georgia, K., 2012, Challenges in the Development of a Project Management Office ( PMO ) for Turnaround Projects in the Process Industry, Vol.6, No.May, pp.13–26.
- Doulgas, H., 2017, Challenge of Safely Managing Plant Turnarounds during STOs. *Energy Processing Canada*, pp.12–13.
- Duffuaa, S., and Ben-daya, M., in press. 10 Turnaround Maintenance.
- Duffuaa, S. O., Al-Turki, U. M., and Daya, M. Ben, 2019, Status of Integrated Turnaround Maintenance. *2019 Industrial and Systems Engineering Conference, ISEC 2019*, pp.1–4.
- Duffuaa, S. O., and Daya, M. A. Ben, 2004, Turnaround maintenance in petrochemical industry: Practices and suggested improvements. *Journal of*

*Quality in Maintenance Engineering*, Vol.10, No.3, pp.184–190.

Duffuaa, S. O., and Hadidi, L. A., 2017, Using QFD to Conduct Performance Assessment for Turnaround Maintenance in Petrochemical Infrastructure. *Journal of Infrastructure Systems*, Vol.23, No.1, pp.05016003.

Elbahri, F. M., Ismael Al-Sanjary, O., Ali, M. A. M., Ali Naif, Z., Ibrahim, O. A., and Mohammed, M. N., 2019, Difference Comparison of SAP, Oracle, and Microsoft Solutions Based on Cloud ERP Systems: A Review. *Proceedings - 2019 IEEE 15th International Colloquium on Signal Processing and its Applications, CSPA 2019*, Vol.No.March, pp.65–70.

Elemnifi, S. M., and Elfeituri, F., 2007, Optimizing Turnaround Maintenance Performance. *The Eighth Pan-Pacific Conference on Occupational Ergonomics, Thailand*, Vol.No.Ppcoe, pp.1–6.

Elwerfalli, A. A., Khan, M. K., and Munive-Hernandez, J. E., 2018, A New Methodology To Optimize Turnaround Maintenance (TAM) Scheduling for Gas Plants. *IAENG Transactions on Engineering Sciences*. (pp. 104–117).

Elwerfalli, A., Khan, M. K., and Munive-Hernandez, J. E., 2019, Developing Turnaround Maintenance (TAM) Model to Optimize TAM Performance Based on the Critical Static Equipment (CSE) of GAS Plants. *International Journal of Industrial Engineering and Operations Management*, Vol.01, No.01, pp.12–31.

Elwerfalli, A., Khan, M. K., and Munive, J. E., 2016, A new methodology for improving TAM scheduling of oil and gas plants. *Proceedings of the World Congress on Engineering 2016 Vol II* (Vol. 2, pp. 807–812).

Erkoc, M., and Ertogral, K., 2016, Overhaul planning and exchange scheduling for maintenance services with rotatable inventory and limited processing capacity. *Computers and Industrial Engineering*, Vol.98, pp.30–39.

Farhang Moghaddam, B., 2019, Mapping optimization techniques in project management. *Journal of Project Management*, Vol.4, pp.217–228.

Froger, A., Gendreau, M., Mendoza, J. E., Pinson, É., and Rousseau, L. M., 2016, Maintenance scheduling in the electricity industry: A literature review. *European Journal of Operational Research*, Vol.251, No.3, pp.695–706.

Ganesh, S., Su, Q., Vo, L. B. D., Pepka, N., Rentz, B., Vann, L., Yazdanpanah, N., O'Connor, T., Nagy, Z. K., and Reklaitis, G. V., 2020, Design of condition-based maintenance framework for process operations management in pharmaceutical continuous manufacturing. *International Journal of Pharmaceutics*, Vol.587, No.July, pp.119621.

Georgiadis, G. P., Elekidis, A. P., and Georgiadis, M. C., 2019, Optimization-based

scheduling for the process industries: From theory to real-life industrial applications. *Processes*, Vol.7, No.7,.

Ghazali, Z., and Akbar, J. ud D., 2017, Plant Turnaround Maintenance Leading and Plant Turnaround Maintenance Performance in Malaysian Process Based Industry : The Mediating role of Team Alignment. *Global Business and Management Research: An International Journal*, Vol.9, No.1, pp.85–101.

Ghazali, Z., and Halib, M., 2011, Towards an alternative organizational structure for plant turnaround maintenance: An experience of PETRONAS gas Berhad, Malaysia. *European Journal of Social Sciences*, Vol.26, No.1, pp.40–48.

Ghazali, Z., and Halib, M., 2015, The Organization of Plant Turnaround Maintenance in Process-Based Industries : Analytical Framework and Generic Processes The Organization of Plant Turnaround Maintenance in Process-Based Industries : Analytical Framework and Generic Processes, Vol.No.April,.

Ghazali, Z., and Shamim, A., 2015, Managing plant turnaround maintenance in Malaysian process-based industries: A study on centralisation, formalisation and plant technology. *International Journal of Applied Management Science*, Vol.7, No.1, pp.59–80.

Gibbons, P. M., and Burgess, S. C., 2010, Introducing OEE as a measure of lean six sigma capability. *International Journal of Lean Six Sigma*, Vol.1, No.2, pp.134–156.

Gupta, S., 2011, Completing Turnaround Projects Faster With Full Scope. *Electric Lights &Power*, pp.36–39.

Hadidi, L. A., and Khater, M. A., 2015, Loss prevention in turnaround maintenance projects by selecting contractors based on safety criteria using the analytic hierarchy process (AHP). *Journal of Loss Prevention in the Process Industries*, Vol.34, pp.115–126.

Hameed, A., and Khan, F., 2014, A framework to estimate the risk-based shutdown interval for a processing plant. *Journal of Loss Prevention in the Process Industries*, Vol.32, No.1, pp.18–29.

Hameed, A., Khan, F., and Ahmed, S., 2016, A risk-based shutdown inspection and maintenance interval estimation considering human error. *Process Safety and Environmental Protection*, Vol.100, pp.9–21.

Hazir, Ö., 2015, A review of analytical models, approaches and decision support tools in project monitoring and control. *International Journal of Project Management*, Vol.33, No.4, pp.808–815.

Kalaimani, J., 2016, *SAP Project Management Pitfalls*.

- Kelly, A., 2006, Management of plant turnarounds - Part 2: Turnaround methodology. *Plant Maintenance Management Set*, pp.109–133.
- Khalyasmaa, A. I., and Zinovieva, E. L., 2017, Intelligent decision support system for technical solutions efficiency assessment. *Proceedings of 2017 IEEE 2nd International Conference on Control in Technical Systems, CTS 2017*, Vol.No.17, pp.247–250.
- Khasanah, R., 2012, *RELIABILITY-CENTERED MAINTENANCE (RCM) EVALUATION IN THE INDUSTRY APPLICATION, CASE STUDY: FERTILIZER COMPANY, INDONESIA*. University of Malaya.
- Khasanah, R., Jamasri, and Yuniarto, H. A., 2019, Evaluation of turnaround maintenance practice effects in the process industry. *IOP Conf. Series: Materials Science and Engineering* (Vol. 673).
- Kochar, A., 2019, Optimizing a maintenance turnaround. *Supply Chain Management Review*, Vol.No.January, pp.49–51.
- Lawrence, G., 2012, Cost estimating for turnarounds. *Petroleum Technology Quarterly*, Vol.17, No.1,.
- Lenahan, T., 2006, *Turnaround, Shutdown and Outage Management*. Elsevier.
- Lenfeld, P., and Buttridge, I., 2013, Plant revamps and turnarounds: Some lessons learned. *Chemical Engineering (United States)*, Vol.120, No.12, pp.45–50.
- Levitt, J., 2004, *Managing Maintenance Shutdowns and Outages*. Retrieved from [https://books.google.com.br/books?hl=pt-BR&lr=&id=6S2-H2INS58C&oi=fnd&pg=PR5&dq=%22Joel+Levitt%22&ots=QCZOLsuEgz&sig=a\\_xLbhTyqcxOTf4G-kSDnls7q6M](https://books.google.com.br/books?hl=pt-BR&lr=&id=6S2-H2INS58C&oi=fnd&pg=PR5&dq=%22Joel+Levitt%22&ots=QCZOLsuEgz&sig=a_xLbhTyqcxOTf4G-kSDnls7q6M)
- Li, Z., and Ierapetritou, M., 2008, Process scheduling under uncertainty: Review and challenges. *Computers and Chemical Engineering*, Vol.32, No.4–5, pp.715–727.
- Manzini, R., Accorsi, R., Cennerazzo, T., Ferrari, E., and Maranesi, F., 2015, The scheduling of maintenance. A resource-constraints mixed integer linear programming model. *Computers and Industrial Engineering*, Vol.87, pp.561–568.
- Marques, C. M., Moniz, S., de Sousa, J. P., Barbosa-Povoa, A. P., and Reklaitis, G., 2020, Decision-support challenges in the chemical-pharmaceutical industry: Findings and future research directions. *Computers and Chemical Engineering*, Vol.134, pp.106672.
- Megow, N., Möhring, R. H., and Schulz, J., 2011, Decision support and optimization in shutdown and turnaround scheduling. *INFORMS Journal on*

*Computing*, Vol.23, No.2, pp.189–204.

Moniri, M. R., Alem Tabriz, A., Ayough, A., and Zandieh, M., 2020, Turnaround project risk assessment using hybrid fuzzy SWARA and EDAS method: case of upstream oil process industries in Iran. *Journal of Engineering, Design and Technology*.

Moradi, H., and Shadrokh, S., 2019, A robust reliability-based scheduling for the maintenance activities during planned shutdown under uncertainty of activity duration. *Computers and Chemical Engineering*, Vol.130, pp.106562.

Motylenski, R. J., 2003, Proven turnaround practices. *Hydrocarbon Processing*.

Narimisa, M. R., and Narimisa, M. R., 2017, Technical Inspection Engineering , The study of Risk Based Inspection in process industries Technical Inspection Engineering , The study of Risk Based Inspection in. *International Journal of Advanced Biotechnology and Research*, Vol.8, No.2, pp.460–465.

Neikirk, D., 2011, Turnaround/Shutdown Optimization Plan for the 5 phases of a Plant Maintenance Shutdown. *Plant Services*, pp.1–5.

Obiajunwa, C. C., 2010, *A framework for the successful implementation of turnaround maintenance projects*. PQDT - Global. Retrieved from <https://search.proquest.com/docview/1973936779?accountid=188395>

Obiajunwa, C. C., 2012, A framework for the evaluation of turnaround maintenance projects. *Journal of Quality in Maintenance Engineering*, Vol.18, No.4, pp.368–383.

Oliver, R., 2002, Complete planning for maintenance turnarounds will ensure success. *Oil and Gas journal*, Vol.100, No.17, pp.54–63.

Pokharel, S., and Jiao, J. R., 2008, Turn-around maintenance management in a processing industry: A case study. *Journal of Quality in Maintenance Engineering*, Vol.14, No.2, pp.109–122.

Pourjavad, E., Shirouyehzad, H., and Shahin, A., 2011, Analyzing RCM Indicators in Continuous Production Lines: A Case Study. *International Business Research*, Vol.4, No.4, pp.115–124.

Prasad, R., and Altaf, M., 2008, Turnaround Planning, pp.1–8.

Premaj, P., Vereen, S. C., Back, W. E., Moynihan, G., and Marks, E., 2017, *Assessment of Project Controls for Shutdowns / Turnarounds / Outages*. University of Alabama.

Rajagopalan, S., Sahinidis, N. V., Amaran, S., Agarwal, A., Bury, S. J., Sharda, B., and Wassick, J. M., 2017, Risk analysis of turnaround reschedule planning in



integrated chemical sites. *Computers and Chemical Engineering*, Vol.107, pp.381–394.

Ramachandran, S., Rajendran, C., and Amirthalingam, V., 2019, Decision Support System for the Maintenance Management of Road Network Considering Multi-Criteria. *International Journal of Pavement Research and Technology*, Vol.12, No.3, pp.325–335.

Raoufi, M., and Fayek, A. R., 2014, Process Improvement for Power Plant Turnaround Planning and Management. *International Journal of Architecture, Engineering and Construction*, Vol.3, No.3, pp.168–181.

Rashidi, M., Ghodrat, M., Samali, B., and Mohammadi, M., 2018, Decision Support Systems. *Management of Information Systems* (pp. 461–472). InTech.

Roup, J., 2004, Processing: Strategy maximizes turnaround performance. *Oil and Gas Journal*, Vol.102, No.20, pp.46–48, 50, 52, 54.

Shahi, A., 2013, *Best Practices for the Planning and Execution of Turnaround Projects in the Oil and Gas Industry*.

Tam, A. S. B., Chan, W. M., and Price, J. W. H., 2006, Optimal maintenance intervals for a multi-component system. *Production Planning & Control*, Vol.17, No.8, pp.769–779.

Technologies, I., 2008, *Practical Shutdown and Turnaround Management for Engineers and Managers*. West Perth: IDC Technologies Pty Ltd.

Turner, C. J., Emmanouilidis, C., Tomiyama, T., Tiwari, A., and Roy, R., 2019, Intelligent decision support for maintenance: an overview and future trends. *International Journal of Computer Integrated Manufacturing*, Vol.32, No.10, pp.936–959.

Utne, I., Thuestad, L., Finbak, K., and Thorstensen, T. A., 2012, Shutdown preparedness in oil and gas production. *Journal of Quality in Maintenance Engineering*, Vol.18, No.2, pp.154–170.

Van Horenbeek, A., Pintelon, L., and Muchiri, P., 2010, Maintenance optimization models and criteria. *International Journal of Systems Assurance Engineering and Management*, Vol.1, No.3, pp.189–200.

Vishnu, C. R., and Regikumar, V., 2016, Reliability Based Maintenance Strategy Selection in Process Plants : A Case Study. *Procedia Technology*, Vol.25, No.1, pp.1080–1087.

Winston, W. L., 2004, Operations Research. *Mathematics in Science and Engineering*.

Zhang, D., Yan, B. H., Feng, Z., Zhang, C., and Wang, Y. X., 2017, Container oriented job scheduling using linear programming model. *2017 3rd International Conference on Information Management, ICIM 2017*, pp.174–180.