

DAFTAR PUSTAKA

- [1] K. Adli and B. Pramudono, "Studi Campuran Surfactant untuk Menentukan Fungsi Solubilizer dan Fixative pada Industri Parfum," *J. MIPA Unnes*, vol. 38, pp. 57–67, 2015.
- [2] T. Andriani and K. Indriawati, "Deteksi dan Isolasi Kesalahan Berbasis PD Descriptor Observer Menggunakan Hukum CTC pada Robot Manipulator," *J. Tambora*, vol. 1, no. 2, pp. 43–50, 2016.
- [3] J. P. Bentley, *Principles of measurement systems*, 4th ed. Harlow, England ; New York: Pearson Prentice Hall, 2005.
- [4] R. N. Clark, D. C. Fosth, and V. W. Walton, "Detecting Instrument Malfunctions in Control Systems," *IEEE Trans. Aerosp. Electron. Syst.*, vol. AES-11 no., no. 4, pp. 465–473, 1975.
- [5] R. N. Clark, "Instrument Fault Detection," *IEEE Trans. Aerosp. Electron. Syst.*, vol. 2, no. 3, 1978.
- [6] R. Clark, "A Simplified Instrument Failure Detection Scheme," *IEEE Trans. Aerosp. Electron. Syst.*, vol. AES-14, no. 4, pp. 558–563, Jul. 1978, doi: 10.1109/TAES.1978.308680.
- [7] R. Clark, "A missing term in the linear system equations," *IEEE Control Syst. Mag.*, vol. 5, no. 2, pp. 44–44, May 1985, doi: 10.1109/MCS.1985.1104938.
- [8] H. Sunan, L. I. N. Feng, and C. Ben M, "Model-based fault detection , isolation and fault-tolerant control for a class of nonlinear uncertain systems using information estimation," in *Proceedngs of the 34th Chinese Control Conference*, 2015, pp. 6164–6169.
- [9] Z. Wang, D. M. Anand, J. Moyne, and D. M. Tilbury, "Improved Sensor Fault Detection, Isolation, and Mitigation using Multiple Observers Approach," *Natl. Inst. Stand. Technol. NIST*, vol. 5, no. 60, pp. 70–96, 2017, doi: 10.1080/21642583.2016.1278410.Improved.
- [10] P. P. Lin and J. H. Zhu, "Detection and Isolation of Process Faults from Actuator Faults and Sensor Faults for a Typical MIMO Dynamic System," 2014.

- [11] V. T. Minh, N. Afzulpurkar, and W. M. Wan Muhamad, “Fault Detection and Control of Process Systems,” *Math. Probl. Eng.*, vol. 2007, pp. 1–20, 2007, doi: 10.1155/2007/80321.
- [12] J. Wang, W. Ge, J. Zhou, H. Wu, and Q. Jin, “Fault isolation based on residual evaluation and contribution analysis,” *J. Frankl. Inst.*, vol. 354, no. 6, pp. 2591–2612, Apr. 2017, doi: 10.1016/j.jfranklin.2016.09.002.
- [13] G. Madrigal-Espinosa, G.-L. Osorio-Gordillo, C.-M. Astorga-Zaragoza, M. Vázquez-Román, and M. Adam-Medina, “Fault detection and isolation system for boiler-turbine unit of a thermal power plant,” *Electr. Power Syst. Res.*, vol. 148, pp. 237–244, Jul. 2017, doi: 10.1016/j.epsr.2017.03.021.
- [14] A. Farhat and D. Koenig, “Generalized Luenberger observers for fault detection in switched systems using H-index,” in *2016 European Control Conference (ECC)*, Aalborg, Denmark, Jun. 2016, pp. 1886–1891, doi: 10.1109/ECC.2016.7810566.
- [15] A. Rawia, T. Hatem, and K. Jilani, “Fault detection using luenberger observer in a railway system,” in *2016 4th International Conference on Control Engineering & Information Technology (CEIT)*, Hammamet, Tunisia, Dec. 2016, pp. 1–6, doi: 10.1109/CEIT.2016.7929129.
- [16] H. Gara and K. Ben Saad, “Fault detection for linear switched systems based on a bank of luenberger observers,” in *2018 International Conference on Advanced Systems and Electric Technologies (IC_ASET)*, Hammamet, Mar. 2018, pp. 92–97, doi: 10.1109/ASET.2018.8379840.
- [17] M. A. L. Castro, R. F. Escobar, L. Torres, J. F. G. Aguilar, J. A. Hernández, and V. H. Olivares-peregrino, “Sensor fault detection and isolation system for a condensation process,” *ISA Trans.*, vol. 65, pp. 456–467, 2016, doi: 10.1016/j.isatra.2016.08.004.
- [18] M. Boudjellal, “Sensor Fault estimation for a Nonlinear CSTR using Super-twisting and High-gain Observers,” in *5th International Conference on Electrical Engineering - Boumerdes (ICEE-B)*, 2017, pp. 1–5.
- [19] S. Nagarajan, S. Kayalvizhi, and B. Karthikeyan, “Neural Network based Intelligent Sensor Fault Detection in a Three Tanks Interacting Level Process,”

- IEEE*, no. 3, pp. 2429–2434, 2016.
- [20] A. E. Bakri, Y. Berrada, and I. Boumhidi, “Bayesian regularized artificial neural network for fault detection and isolation in wind turbine,” in *2017 Intelligent Systems and Computer Vision (ISCV)*, Fez, Morocco, Apr. 2017, pp. 1–6, doi: 10.1109/ISACV.2017.8054977.
- [21] M. Dhimish, V. Holmes, B. Mehrdadi, and M. Dales, “Comparing Mamdani Sugeno fuzzy logic and RBF ANN network for PV fault detection,” *Renew. Energy*, vol. 117, pp. 257–274, Mar. 2018, doi: 10.1016/j.renene.2017.10.066.
- [22] Patrick. S. P. Eboule, J. H. C. Pretorius, N. Mbuli, and C. Leke, “Fault Detection and Location in Power Transmission Line Using Concurrent Neuro Fuzzy Technique,” in *2018 IEEE Electrical Power and Energy Conference (EPEC)*, Toronto, ON, Oct. 2018, pp. 1–6, doi: 10.1109/EPEC.2018.8598311.
- [23] R. Doraiswami and L. Cheded, “Fault Detection and Isolation,” *INTECH Open Sci.*, no. June, pp. 1–27, 2017, doi: 10.5772/67870.
- [24] D. G. Luenberger, “Observing the State of Linear System,” *IEEE Trans. Mil. Electron.*, pp. 74–80, 1963.
- [25] D. G. Luenberger, “Observers for Multivariable Systems,” *IEEE Trans. Autom. Control*, vol. AC-11, No., pp. 190–197, 1966.
- [26] D. G. Luenberger, “An Introduction to Observers,” *IEEE Trans. Autom. Control*, vol. AC-16, No, 1971.
- [27] H. Huanzhen, Z. Yong, L. Zhenxing, and Z. Min, “Fault Detection of Modular Multilevel Converter with Kalman Filter Method,” in *2019 CAA Symposium on Fault Detection, Supervision and Safety for Technical Processes (SAFEPROCESS)*, Xiamen, China, Jul. 2019, pp. 251–256, doi: 10.1109/SAFEPROCESS45799.2019.9213254.
- [28] G. Fumin, R. Xuemei, L. Zhijun, and H. Cunwu, “Kalman filter based fault detection of dual motor systems,” in *2017 36th Chinese Control Conference (CCC)*, Dalian, China, Jul. 2017, pp. 7133–7137, doi: 10.23919/ChiCC.2017.8028481.
- [29] F. Li, X. Cheng, X. Zong, and L. Li, “Command current detection algorithm based on Kalman filter,” in *2018 IEEE 4th Information Technology and*

- Mechatronics Engineering Conference (ITOEC)*, Chongqing, China, Dec. 2018, pp. 1048–1053, doi: 10.1109/ITOEC.2018.8740767.
- [30] Tae Dong, Park and Ki Heon, Park, “Kalman Filter-based Fault Detection and Isolation of Direct Current Motor: Robustness and Applications,” in *2008/10*, Korea, pp. 933–936.
- [31] A. M. Bardawily, M. Tamazin, and A. A. A. Nasser, “Sensors Fault Estimation, Isolation and Detection Using MIMO Extended Kalman Filter for Industrial Applications,” in *10th International Conference on Electrical and Electronics Engineering (ELECO)*, 2017, pp. 944–948.
- [32] K. Adli and B. Pramudono, “Studi Campuran Surfactant untuk Menentukan Fungsi Solubilizer dan Faxative pada Industri Parfum,” vol. 38, no. 1, pp. 57–67, 2015.
- [33] H. Jeong, B. Park, S. Park, H. Min, and S. Lee, “Fault detection and identification method using observer-based residuals,” *Reliab. Eng. Syst. Saf.*, vol. 184, pp. 27–40, Apr. 2019, doi: 10.1016/j.ress.2018.02.007.
- [34] M. Thirumarimurugan, N. Bagyalakshmi, and P. Paarkavi, “Comparison of fault detection and isolation methods: A review,” in *2016 10th International Conference on Intelligent Systems and Control (ISCO)*, Coimbatore, India, Jan. 2016, pp. 1–6, doi: 10.1109/ISCO.2016.7726957.
- [35] “Perfume,” *Wikipedia*. <https://en.wikipedia.org/wiki/Perfume> (accessed Aug. 19, 2020).
- [36] R. Isermann, *Fault-diagnosis systems: an introduction from fault detection to fault tolerance*. Berlin ; New York: Springer, 2006.
- [37] R. Isermann, *Fault-Diagnosis Applications*. Berlin, Heidelberg: Springer Berlin Heidelberg, 2011.
- [38] T. E. Marlin, *PROCESS CONTROL: Designing Processes and Control Systems for Dynamic Performance*. Singapore: McGraw-Hill, 2000.
- [39] N. S. Nise, *Control systems engineering*, 6th ed. Hoboken, NJ: Wiley, 2011.
- [40] C. Svärd, Linköpings universitet, and Institutionen för systemteknik, “Methods for automated design of fault detection and isolation systems: with automotive applications,” Department of Electrical Engineering, Linköpings

universitet, Linköping, 2012.

- [41] R. N. Clark, “A Simplified Instrument Failure Detection Scheme,” *IEEE Trans. Aerosp. Electron. Syst.*, vol. AES-14, no. 4, 1978.
- [42] S. Herdjunanto, “Robust Sensor Fault Isolation of a Series DC Motor using Nonlinear Unknown Input Observer based on LMI,” 2018.
- [43] Kalman, R.E., “A New Approach to Linear Filtering and Prediction Problems,” *ASME–Journal Basic Eng.*, vol. 82, pp. 35–45, 1960.
- [44] Qiang, Li, Ranyang, Li, Kaifan, Ji, and Wei, Dai, “Kalman Filter and Its Application,” presented at the 2015 8th International Conference on Intelligent Networks and Intelligent Systems, Kunming, 2015.
- [45] Peyman Setoodeh, Alireza Khayatian, and Ebrahim Farjah, “Attitude Estimation by Separate-Bias Kalman Filter-Based Data Fusion,” *J. Navig.*, vol. 57, pp. 261–273, 2004, doi: 10.1017/S037346330400270X.
- [46] PT. Iwaki Glass Indonesia, *Laboratory Glassware Catalog*. Indonesia, 2017.