

REFERENSI

- [1] S. Haykin, “Radar Signal Processing,” *IEEE ASSP Mag.*, vol. 2, no. 2, pp. 2–18, 1985, doi: 10.1109/MASSP.1985.1163737.
- [2] G. A. Fabrizio, “T07 - Over the Horizon Radar,” in *2014 IEEE Radar Conference*, May 2014, pp. 34–34, doi: 10.1109/RADAR.2014.6875533.
- [3] A. Dzvonkovskaya, K.-W. Gurgel, H. Rohling, and T. Schlick, “HF Radar WERA Application for Ship Detection and Tracking,” *Eur. J. Navig.*, vol. 7, no. 5, 2009.
- [4] D. G. Money, D. J. Emery, T. M. Blake, C. F. Clutterbuck, and S. J. Ablett, “HF surface wave radar management techniques applied to surface craft detection,” in *Record of the IEEE 2000 International Radar Conference [Cat. No. 00CH37037]*, 2000, pp. 110–115, doi: 10.1109/RADAR.2000.851814.
- [5] Iswandi, R. Hidayat, B. Setiyanto, and S. B. Wibowo, “Study on Detection Mechanism of HF Radar for Early Tsunami Detection and Comparison to Other Tsunami Sensors,” in *2019 11th International Conference on Information Technology and Electrical Engineering (ICITEE)*, Oct. 2019, pp. 1–6, doi: 10.1109/ICITEED.2019.8929984.
- [6] W. Christian, “Bragg-Scattering.” <https://www.radartutorial.eu/07.waves/wa52.en.html> (accessed Jun. 07, 2022).
- [7] V. G. Toro, F. J. Ocampo-Torres, P. Osuna, H. García-Nava, X. Flores-Vidal, and R. Durazo, “Analysis of fetch-limited wave growth using high-frequency radars in the Gulf of Tehuantepec,” *Ciencias Mar.*, vol. 40, no. 2, pp. 113–132, Jun. 2014, doi: 10.7773/cm.v40i2.2403.
- [8] C. Mantovani *et al.*, “Best Practices on High Frequency Radar Deployment and Operation for Ocean Current Measurement,” *Front. Mar. Sci.*, vol. 7, Apr. 2020, doi: 10.3389/fmars.2020.00210.
- [9] D. Miessler, “The Difference Between Precision and Accuracy,” 2019. <https://danielmiessler.com/blog/difference-precision-accuracy/> (accessed Jul. 30, 2022).
- [10] A. Becker, “MULTIDIMENSIONAL KALMAN FILTER,” 2022. <https://www.kalmanfilter.net/kalmanmulti.html> (accessed Oct. 29, 2021).
- [11] Y. Xu, K. Xu, J. Wan, Z. Xiong, and Y. Li, “Research on Particle Filter Tracking Method Based on Kalman Filter,” in *2018 2nd IEEE Advanced Information Management, Communicates, Electronic and Automation Control Conference (IMCEC)*, May 2018, pp. 1564–1568, doi: 10.1109/IMCEC.2018.8469578.
- [12] K. Akçay, “PERFORMANCE METRICS FOR FUNDAMENTAL ESTIMATION FILTERS,” Middle East Technical University, 2005.
- [13] R. D. Yates and D. J. Goodman, *Probability and Stochastic Processes A Friendly*

Introduction for Electrical and Computer Engineers, Second Edi. JOHN WILEY & SONS.

- [14] S. Nugroho, *PENGANTAR STATISTIKA MATEMATIKA*, Edisi Satu. Bengkulu: UNIB Press, 2008.
- [15] S. Prasanna, *PROBABILITY AND MATHEMATICAL STATISTICS*. Louisville: Department of Mathematics University of Louisville, 2013.
- [16] S. M. Ross, *Stochastic Process*, Second edi. New York: JOHN WILEY & SONS, 1996.
- [17] Kemenhub, “Automatic Identification System (AIS),” Mar. 25, 2019. <http://dephub.go.id/org/disnavtanjungpinang/post/read/automatic-identification-system-%28ais%29> (accessed Nov. 14, 2021).
- [18] R. Haryadi, H. Setiawan, W. Hermawansyah, and M. Masmilah, “Sistem Penguraian Data Automatic Identification System (AIS) dengan Bahasa Pemrograman Python.,” Nov. 2019.
- [19] T. Amir, *PENGANTAR PEMROGRAMAN MATLAB*. Jakarta: Elex Media Komputindo, 2017.
- [20] Advernesia, “Pengertian MATLAB dan Kegunaannya,” 2017. <https://www.advernesia.com/blog/matlab/apapa-itu-matlab/> (accessed Aug. 15, 2022).
- [21] Q. Li, R. Li, K. Ji, and W. Dai, “Kalman Filter and Its Application,” in *2015 8th International Conference on Intelligent Networks and Intelligent Systems (ICINIS)*, Nov. 2015, pp. 74–77, doi: 10.1109/ICINIS.2015.35.
- [22] G. Welch and G. Bishop, “An Introduction to the Kalman Filter,” *TR 95-041, Dep. Comput. Sci. Univ. North Carolina Chapel Hill*, 2006.
- [23] P. S. Madhukar and L. B. Prasad, “State Estimation using Extended Kalman Filter and Unscented Kalman Filter,” in *2020 International Conference on Emerging Trends in Communication, Control and Computing (ICONC3)*, Feb. 2020, pp. 1–4, doi: 10.1109/ICONC345789.2020.9117536.
- [24] J. Mochnac, S. Marchevsky, and P. Kocan, “Bayesian filtering techniques: Kalman and extended Kalman filter basics,” in *2009 19th International Conference Radioelektronika*, Apr. 2009, pp. 119–122, doi: 10.1109/RADIOELEK.2009.5158765.
- [25] J. Shen, Y. Liu, S. Wang, and Z. Sun, “Evaluation of Unscented Kalman Filter and Extended Kalman Filter for Radar Tracking Data Filtering,” in *2014 European Modelling Symposium*, Oct. 2014, pp. 190–194, doi: 10.1109/EMS.2014.49.
- [26] The MathWorks Inc, “Develop Apps Using App Designer,” 2022. <https://www.mathworks.com/help/matlab/app-designer.html> (accessed Jun. 09, 2022).
- [27] F. Yuni Amaelia and Hugeng, “Sistem Antena Array Paralel untuk Menghasilkan Lobe Radiasi Utama dalam Arah Bervariasi,” *TESLA*, vol. 15, no. 2, pp. 165–184, 2013.
- [28] N. L. Baisa, “Derivation of a Constant Velocity Motion Model for Visual Tracking,” May 2020, [Online]. Available: <http://arxiv.org/abs/2005.00844>.



- [29] K. Saho and M. Masugi, “Performance Analysis and Design Strategy for a Second-Order, Fixed-Gain, Position-Velocity-Measured (α - β - η - θ) Tracking Filter,” *Appl. Sci.*, vol. 7, no. 8, p. 758, Jul. 2017, doi: 10.3390/app7080758.
- [30] W. Jiabao, Y. Guochen, G. Liqing, L. Yongxin, and N. Xiaomin, “HFSWR ship trajectory tracking and fusion with AIS using Kalman filter,” in *2017 29th Chinese Control And Decision Conference (CCDC)*, May 2017, pp. 456–461, doi: 10.1109/CCDC.2017.7978137.
- [31] J. Frost, “Mean Squared Error (MSE),” 2022. <https://statisticsbyjim.com/regression/mean-squared-error-mse/> (accessed Jul. 10, 2022).