

DAFTAR PUSTAKA

- [1] H. Shakhathreh *et al.*, “Unmanned Aerial Vehicles (UAVs): A Survey on Civil Applications and Key Research Challenges,” 2019, *Institute of Electrical and Electronics Engineers Inc.* doi: 10.1109/ACCESS.2019.2909530.
- [2] Y. Zeng, R. Zhang, and T. J. Lim, “Wireless communications with unmanned aerial vehicles: opportunities and challenges,” *IEEE Communications Magazine*, vol. 54, no. 5, pp. 36–42, May 2016, doi: 10.1109/MCOM.2016.7470933.
- [3] L. Gupta, R. Jain, and G. Vaszkun, “Survey of Important Issues in UAV Communication Networks,” *IEEE Communications Surveys and Tutorials*, vol. 18, no. 2, pp. 1123–1152, Apr. 2016, doi: 10.1109/COMST.2015.2495297.
- [4] A. A. Khuwaja, Y. Chen, N. Zhao, M. S. Alouini, and P. Dobbins, “A survey of channel modeling for uav communications,” *IEEE Communications Surveys and Tutorials*, vol. 20, no. 4, pp. 2804–2821, Oct. 2018, doi: 10.1109/COMST.2018.2856587.
- [5] J. Zhang, L. Xiang, and J. Yang, “On the Application of Directional Antennas in Multi-tier Unmanned Aerial Vehicle Networks,” 2016, doi: 10.1109/ACCESS.2017.DOI.
- [6] M. Ding and D. López-Pérez, “Performance impact of base station antenna heights in dense cellular networks,” *IEEE Trans Wirel Commun*, vol. 16, no. 12, pp. 8147–8161, Dec. 2017, doi: 10.1109/TWC.2017.2757924.
- [7] S. Chilukuri, “Simulation Studies On An Energy Efficient Multipath Routing Protocol Using Directional Antennas For Manets,” *International Journal of Wireless & Mobile Networks*, vol. 4, no. 4, pp. 123–140, Aug. 2012, doi: 10.5121/ijwmn.2012.4409.
- [8] S. Hayat, E. Yanmaz, and R. Muzaffar, “Survey on Unmanned Aerial Vehicle Networks for Civil Applications: A Communications Viewpoint,” Oct. 01, 2016, *Institute of Electrical and Electronics Engineers Inc.* doi: 10.1109/COMST.2016.2560343.
- [9] M. A. Kovacinal, D. Palm&, G. Yang ’, and R. Vaidyanathan4, “Multi-Agent Control Algorithms for Chemical Cloud Detection and Mapping Using Unmanned Air Vehicles,” 2002.
- [10] R. Chembil Palat, A. Annamalai, and J. H. Reed, “Cooperative Relaying For Ad-Hoc Ground Networks Using Swarm UAVS.”

- [11] A. Ryan, M. Zennaro, A. Howell, R. Sengupta, and J. K. Hedrick, "An Overview of Emerging Results in Cooperative UAV Control," Dec. 2004.
- [12] I. Radiocommunication Bureau, "International Telecommunication Union Radiocommunication Sector SM Series: Spectrum management Use of commercial drones for ITU-R spectrum monitoring tasks," 2024. [Online]. Available: <http://www.itu.int/ITU-R/go/patents/en>
- [13] H. Yusuf, F. Rahutomo, and S. Sutrisno, "Antenna Tracker System for Unmanned Aerial Vehicles: A Short Review," *Journal of Electrical, Electronic, Information, and Communication Technology*, vol. 5, no. 2, p. 49, Nov. 2023, doi: 10.20961/jeeict.5.2.72496.
- [14] G. Nugroho and D. Dectaviansyah, "Design, manufacture and performance analysis of an automatic antenna tracker for an unmanned aerial vehicle (UAV)," *Journal of Mechatronics, Electrical Power, and Vehicular Technology*, vol. 9, no. 1, pp. 32–40, Jul. 2018, doi: 10.14203/j.mev.2018.v9.32-40.
- [15] R. Shirvastava and A. K. Shrivastava, "An analysis of some major antennas using frequency 750 MHz to 850 MHz," vol. 6, no. 1, pp. 191–195, 2014, [Online]. Available: <http://recent-science.com/>
- [16] Constantine. A. Balanis, *Antenna Theory Analysis And Design*, 4th ed. Wiley, 2016.
- [17] T. S. Bird, "Definition and Misuse of Return Loss," Apr. 2009.
- [18] Y. Liuqing, "The measurement of antenna VSWR by means of a Vector Network Analyzer Master thesis project."
- [19] W. Ahrens, "Commentary Open access Corresponding author Antenna Parameters and Understanding Radiation Pattern CONFLICT OF INTEREST," 2023, doi: 10.36648/2394-9988-10.3.26.
- [20] H. j Visser, *Antenna Theory And Applications*, 1st ed. Wiley, 2012.
- [21] H. Errifi, A. Baghdad, A. Badri, and A. Sahel, "Design and Analysis of Directive Microstrip Patch Array Antennas with Series, Corporate and Series-Corporate Feed Network," *International Journal of Electronics and Electrical Engineering*, vol. 3, no. 6, 2015, doi: 10.12720/ijeee.3.6.416-423.

- [22] G. Nugroho and D. Dectaviansyah, "Design, manufacture and performance analysis of an automatic antenna tracker for an unmanned aerial vehicle (UAV)," *Journal of Mechatronics, Electrical Power, and Vehicular Technology*, vol. 9, no. 1, pp. 32–40, Jul. 2018, doi: 10.14203/j.mev.2018.v9.32-40.
- [23] Kraus, J.D. "Antennas." 2nd Edition. McGraw-Hill, 1988.
- [24] V. H. Nabilla, Indonesia, Dony Permana, and Fadhilah Fitri, "Comparison of Haversine and Euclidean Distance Formula for Calculating Distance Between Regencies in West Sumatra," *UNP Journal of Statistics and Data Science*, vol. 1, no. 3, pp. 120–125, May 2023, doi: 10.24036/ujsds/vol1-iss3/39.
- [25] L. Xie, X. Cui, S. Zhao, and M. Lu, "Mitigating multipath bias using a dual-polarization antenna: Theoretical performance, algorithm design, and simulation," *Sensors (Switzerland)*, vol. 17, no. 2, Feb. 2017, doi: 10.3390/s17020359.
- [26] F. Marintis Dwijayatno, Y. Christyono, and I. Santoso, "Perancangan Antena Helix Untuk Meningkatkan Daya Terima Sinyal GSM 900 Yang Memiliki Level Daya Rendah."