

DAFTAR PUSTAKA

- [1] D. Anwar, "Perbandingan Hidrolisis Gula Aren dan Gula Pasir Dengan Katalis Matriks Polistirenia Terikat Silang (Crosslink)," *Jurnal Ilmiah Kohesi*, vol. 3, no. 3, pp. 15–20, Jul. 2019.
- [2] B. Hermawan, "Monitoring Kadar Air Tanah Melalui Pengukuran Sifat Dielektrik Pada Lahan Jangung," *Jurnal Ilmu-Ilmu Pertanian Indonesia*, vol. 7, no. 1, pp. 15–22, 2005.
- [3] L. A. Didik, "Pengaruh Pemberian Medan Magnet Terhadap Konstanta Dielektrik Material AgCrO_2 ," *Jurnal Fisika dan Pendidikan Fisika*, vol. 2, no. 1, pp. 45–50, 2016.
- [4] L. A. Didik, "Pengukuran Kontanta Dielektrik Untuk Mengetahui Konsentrasi Larutan Gula Dengan Menggunakan Metode Plat Sejajar," *Jurnal Pendidikan Fisika, Universitas Islam Negeri Mataram*, vol. 8, no. 2, pp. 2355–5785, 2020.
- [5] S. Alam and I. Wijaya, "Perancangan Antena Mikrostrip Array 2x2 Frekuensi 2,4 GHz Untuk Komunikasi IoT," *Kajian Teknik Elektro*, vol. 3, no. 1, pp. 2501–8464, 2018.
- [6] M. El Gahrbi, M. M. Estrada, R. F. Garcia, and I. Gil, "Determinantion of Salinity and Sugar Concentration by means of a Circular Ring Monopole Textile Antenna based Sensor," *IEEE Sens J*, vol. 21, no. 21, pp. 27351–23760, 2021.
- [7] C.A. Balanis, "Antenna Theory Analysis and Design," J. Wiley, Ed., 4th ed. Unite State of America: New Jersey, 2005.
- [8] Z. Liu, K. Chen, Z. Li, and X. Jiang, "Crack monitoring method for an FRP-strengthened steel structure based on an antenna sensor," *Sensors (Switzerland)*, vol. 17, no. 10, pp. 2394–2411, Oct. 2017.
- [9] C. Deffendol and C. Fuse, "Microstrip Antennas for Dielectric Property Measurement," vol. 3, no. 10, pp. 1954–1956, 1999.
- [10] Samsuzzaman, M. T. Islam, N. Rahman, and M. S. J. Singh, "Detection of salt and sugar contents in water on the basis of dielectric properties using microstrip antenna-based sensor," *IEEE Access*, vol. 6, pp. 4118–4126, Jan. 2018.
- [11] D. Pebrimarta, "Perancangan Antena Mikrostrip Circular Patch 2.4 GHz Untuk Mendeteksi Larutan Gula Berdasarkan Konstanta Dielektriknya," Universitas Andalas, Padang, 2022.
- [12] S. Harnsoongnoen and A. Wanthong, "A non-contact planar microwave sensor for detection of high-salinity water containing NaCl , KCl , CaCl_2 , MgCl_2 and Na_2CO_3 ," *Sens Actuators B Chem*, vol. 17, no. 10, p. 331, 2021.

- [13] R. Garg, P. Bhartia, I. Bahl, and A. Ittipiboon, "Microstrip Antenna Design Handbook," I Vadman, Ed., London: ArtechHouse Inc, 2001.
- [14] S. Dase, "Antena dan Propagasi," M. Kika, Ed., 1st ed. Yogyakarta: ANDI , 2022.
- [15] R. Sinaga and A. H. Rambe, "Analisis Perbandingan Antara Saluran Pencatu Feed Line dan Proximity Coupled Untuk Antena Mikrostrip Patch Segiempat," *Singuda Ensikom*, vol. 6, no. 3, pp. 135–140, 2014.
- [16] B. E. Cahyono, M. Misto, and H. N. Arivah, "Analisa Kualitas Semen Melalui Pengukuran Konstanta Dielektrik Dan Resistivitas," *J.Rekayasa Energi Manufaktur*, vol. 2, no. 2, p. 57, Jan. 2017.
- [17] D. . Tobing, *Fisika Dasar 1*, vol. 1. Jakarta: Gramedia Pustaka Utama, 1996.
- [18] Ansoft Corporation, "User's guide - High Frequency Structure Simulator," Ansoft Corp., Ed., 1st ed. USA: Pittsburgh, 2005.
- [19] F. Khaerunnisa, A. Setia Budi, S. Mulyani, and Hendrawan, "Kimia Fisika 2," Edisi 1. Tangerang Selatan: Universitas Terbuka, 2008.
- [20] L. Mei Ari Putri, T. Prihandono, and B. Supriadi, "Pengaruh Konsentrasi Larutan Terhadap Laju Kenaikan Suhu Larutan," *J. Pembelajaran Fisika*, vol. 6, no. 2, pp. 147–153, 2017.
- [21] N. Khikmah, "Pengaruh Konsentrasi NaOH dan Laju Alir Pada Penentuan Kreatinin Dalam Urin Secara Sequential Injection Analysis," *Jurnal Kimia*, vol. 1, no. 1, pp. 613–616, 2015.
- [22] S. Dwika Adha, D. Purwonugroho, and R. Triandi Tjahjanto, "Pengaruh Konsentrasi Larutan HNO₃ dan Waktu Kontak Terhadap Desorpsi Kadium (II) Yang Terikat Pada Biomassa Azolla Microphylla-Sitrat," *Jurnal Kimia*, vol. 1, no. 1, pp. 636–642, 2015.
- [23] Rusman, R. Fazlia Indah Rahmayani, and Mukhlis, "Buku Ajar Kimia Larutan," 1st ed. Aceh: Syaiha Kuala University Press, 2018, pp. 1–21.
- [24] M. Yusro and A. Diamah, "Sensor & Transduser (Teori dan Aplikasi)," Jakarta: Universitas Negeri Jakarta, 2019.
- [25] C. Ee Meng *et al.*, "Development of Microstrip Patch Antenna Sensing System for Salinity and Sugar Detection in Water Dielectric Measurement View project smart online pd monitoring View project Development of Microstrip Patch Antenna Sensing System for Salinity and Sugar Detection in Water," *International Journal of Mechanical & Mechatronics Engineering IJMME-IJENS*, vol. 14, no. 05, pp. 31–36, 2014.
- [26] S. Jain, "Early Detection of Salt and Sugar by Microstrip Moisture Sensor Based on Direct Transmission Method," *Wirel Pers Commun*, vol. 122, no. 1, pp. 593–601, 2022.
- [27] M. Nasir, D. Universitas, B. Darma, J. Jenderal, A. Yani, and N. 12 Palembang, "Perbandingan Teknologi Wimax Dengan Wi-Fi," *Jurnal Ilmiah MATRIK* , vol. 15, no. 1, pp. 43–52, 2013.

- [28] M. Hidayab, A. Halim Ali, and K. Bariah Abas Azmi, “Wifi Signal Propagation at 2.4 GHz,” *IEEE Access*, vol. 9, no. 1, pp. 528–531, 2009.
- [29] A. Afifah Muhartini *et al.*, “Analisis Peramalan Jumlah Penerimaan Mahasiswa Baru dengan Menggunakan Metode Regresi Linear Sederhana,” vol. 1, no. 1, pp. 17–23, 2021.
- [30] V. R. Prasetyo, H. Lazuardi, A. A. Mulyono, and C. Lauw, “Penerapan Aplikasi RapidMiner Untuk Prediksi Nilai Tukar Rupiah Terhadap US Dollar Dengan Metode Linear Regression,” *Jurnal Nasional Teknologi dan Sistem Informasi*, vol. 7, no. 1, pp. 8–17, 2021.
- [31] Y. Liang *et al.*, “An LC Wireless Microfluidic Sensor Based on Low Temperature Co-Fired Ceramic (LTCC) Technology,” vol. 19, no. 6, pp. 1189–1189, 2019.

