

REFERENCES

- Akhlaq, M., Ellahi, A., Scholz, M., 2024, Comparative Analysis of Machine Learning Algorithms for Water Quality Prediction, *Tellus A: Dynamic Meteorology and Oceanography*, Vol. 76, Hal. 177–192, DOI: 10.16993/tellusa.4069.
- Ardutech, 2019, Arduino Sensor Suhu DS18B20, *Ardutech your inovation partner*. <https://www.ardutech.com/arduino-sensor-suhu-ds18b20/> (accessed 23-January-2026).
- Ardutech, 2020, Mengenal ESP32 Development Kit untuk IoT (Internet of Things), *ARDUTECH*. <https://www.ardutech.com/mengenal-esp32-development-kit-untuk-iot-internet-of-things/> (accessed 24-June-2026).
- Atkins, P., Paula, J. de, 2006, *Atkins' Physical Chemistry*, eighth, W. H. Freeman and Company, New York.
- Chang, R., 2008, The Essential Concepts, Good-Hodge, T.L. (Ed.), *General Chemistry*, Thomas D. Timp, San Francisco.
- Darmasakti, 2025, Mengenal TDS Meter Alat Ukur Jumlah Partikel Terlarut, *darmasakti*. <https://darmasakti.com/mengenal-tds-meter-alat-ukur-jumlah-partikel-terlarut> (accessed 16-January-2026).
- Dida, 2024, What is Random Forest?, *dida*. <https://dida.do/what-is-random-forest> (accessed 16-January-2026).
- Duan, G., Du, Y., Shang, Y., Xue, H., Zhang, R., 2025, Research on Support Vector Regression Short-Time Traffic Flow Prediction Model for Secondary Roads Based on Associated Road Analysis, *Applied Sciences*, Vol. 15, Hal. 1779, DOI: 10.3390/app15041779.
- Fatimah, N., Studi, P., Elektro, T., Teknik, F., Makassar, U.M., Makassar, K., Selatan, S., 2025, Rancang Bangun Prototype Sistem Monitoring Kualitas Air pada PLTG Menggunakan IOT, *JITET (Jurnal Informatika dan Teknik Elektro Terapan)*, Vol. 13, Hal. 1569–1577.
- Halliday, D., Resnick, R., Walker, J., 2014, *Fundamentals of Physics*, tenth, Wiley.
- Hartawan, I.N.B., Sudiarsa, I.W., 2019, Analisis Kinerja Internet of Things Berbasis Firebase Real Time Database, *Resistor (Rekayasa Sistem Komputer)*,

Vol. 1.

- Hastie, T., Tibshirani, R., Friedman, J., 2008, Data Mining, Inference, and Prediction, *The Elements of Statistical Learning*, California.
- Hyndman, R.J., Athanasopoulos, G., 2021, *Forecasting : Principle and Practice*, third, OTexts, Melbourne.
- Jamaaluddin, 2019, *Konduktor – Isolator dan Semi Konduktor*, first, UMSIDA Press, Sidoarjo, Jawa Timur.
- James, G., Witten, D., Hastie, T., Tibshirani, R., 2021, *An Introduction to Statistical Learning*, second.
- Kemenkes, 2023, *Peraturan Menteri Kesehatan Republik Indonesia Nomor 2 Tahun 2023*, peraturan.go.id.
- Lestari, A., Zafia, A., 2022, Penerapan Sistem Monitoring Kualitas Air Berbasis Internet of Things, *LEDGER: Journal Informatic and Information Technology*, Vol. 1, Hal. 17–24.
- MangroveMap, 2024, Cara Menggunakan pH Meter, *Mangrove Map*. <https://mangrovemap.com/2024/07/14/cara-menggunakan-ph-meter/> (accessed 16-January-2026).
- Montgomery, D.C., Jennings, C.L., Kulahci, M., 2008, *Introduction to Time Series Analysis and Forecas*, John Wiley & Sons, Inc., Hoboken, New Jersey.
- Mukhtar, A., Hermana, R., Burhanudin, A., Setyoadi, Y., 2023, Sensor dan Aktuator: Konsep Dasar dan Aplikasi, Masrurroh, A. (Ed.), *Widina Media Utama*, Bandung, Jawa Barat.
- Pang, H., Ben, Y., Cao, Y., Qu, S., 2025, Time series-based machine learning for forecasting multivariate water quality in full-scale drinking water treatment with various reagent dosages, *Elsevier*, Vol. 268, DOI: <https://doi.org/10.1016/j.watres.2024.122777>.
- Patterson, G.D., 2025, *From Heat to Thermal Science*, Rasmussen, S.C. (Ed.), *Perspectives on the History of Chemistry*, Pittsburgh.
- Prasetyo, B.D., Widodo, E., Ardiatma, D., 2025, Sistem Monitoring Kualitas Air Sumur Berbasis Iot Dengan Fuzzy Logic dan Interface Berbasis Web, *INSECT : Jurnal Teknik Informatika*, Vol. 11, Hal. 55–66.

- Primanandra, A., 2023, Sistem Pemantauan serta Pengendalian Suhu dan pH air Berbasis Arduino Uno pada Pendederan Udang Vaname, , Universitas Andalas.
- Puskomedia Indonesia, 2024, Menggunakan API (Application Programming Interface) dalam Integrasi Basis Data, *puskomedia*. <https://puskomedia.id/blog/menggunakan-api-application-programming-interface-dalam-integrasi-basis-data/> (accessed 16-January-2026).
- Putra, J. wira gotama, 2020, Pengenalan Konsep Pembelajaran Mesin dan Deep Learning, Vol. 4.
- Roza, F.S. da, 2023, Machine Learning A quick look at safe reinforcement learning, *Fraunhofer Institute for Cognitive System IKS*. <https://safe-intelligence.fraunhofer.de/en/articles/safe-reinforcement-learning> (accessed 16-January-2026).
- Rozaq, I.A., DS, N.Y., 2017, Uji Karakterisasi Sensor Suhu DS18B20 Waterproof Berbasis Arduino Uno Sebagai Salah Satu Parameter Kualitas Air, *Prosiding SNATIF Ke-4 Tahun 2017*, Fakultas Teknik, Universitas Muria Kudus, Kudus, Pp. 303–309.
- Shreyans, 2023, Beetech TP-101 Thermometer with Probe, *shreyans*. <https://shreyans.enterprises/product/beetech-tp-101-thermometer-with-probe/> (accessed 16-January-2026).
- Suryani, A., Kusumayati, A., 2022, Faktor yang Berhubungan dengan Kualitas Biologis Air Minum Isi Ulang : Literature Reviw, *PREPOTIF Jurnal Kesehatan Masyarakat*, Vol. 6, Hal. 1852–1860.
- Susanti, M.I., 2020, Air dan Kesehatan.
- Sutton, R.S., Barto, A.G., 2018, *Reinforcement Learning : An Introduction*, second, The MIT Press, Cambridge, Massachusetts.
- Techfor Id, 2022, Konsep Unsupervised Learning, Jenis, dan Contohnya dalam Machine Learning, *techfor.id*. <https://www.techfor.id/konsep-unsupervised-learning-jenis-dan-contohnya-dalam-machine-learning/> (accessed 16-January-2026).
- Triavin, A., Putra, D., Hardjianto, M., 2023, Sistem Pengatur Suhu Dan PH Air

- Aquarium Otomatis Dengan Metode Fuzzy Logic Berbasis NodeMCU, *SKANIKA : Sistem Komputer dan Teknik Informatika*, Vol. 6, Hal. 32–41.
- Wiki, Dfr., 2024, Analog TDS Sensor Meter For Arduino SKU SEN0244, *fernell*.
<https://www.farnell.com/datasheets/4376692.pdf> (accessed 23-January-2026).
- Yan, X., Zhang, T., Du, W., Meng, Q., Xu, X., Zhao, X., 2024, A Comprehensive Review of Machine Learning for Water Quality Prediction over the Past Five Years, *Marine Science and Engineering*, Vol. 12.
- Yi Chun Electronics, Hwa Tai Technology, 2020, Large LCD Display Digital Stem Thermometer TP101, *Microtempelectrics*.
<https://5.imimg.com/data5/SELLER/Doc/2021/3/JC/JP/EU/19097211/probe-thermometer.pdf> (accessed 23-January-2026).

