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DAFTAR PUSTAKA

[1] S. J. M. Shareef, „The Impact of Tilt Angle on Photovoltaic Panel Output," *ZANCO Journal of Pure and Applied Sciences,* Bd. 29, pp. 107-118, 2017.

[2] S. R. Nazir, K. und M. Hadi, „Improve Dual Axis Solar Tracker Algorithm based on Sunrise and Sunset Position," *Journal of Electrical System,* Bd. VI, Nr. 11, pp. 397-406, 2015.

[3] H. B. P. Anggie Patria Pramagusta, „Sistem Penjejak Matahari Menggunakan Metode Pengukuran Titik Koordinat Lokasi untuk Optimalisasi Perolehan Data Pengukuran oleh Sunphotometer," in *Seminar Nasional Instrumentasi, Kontrol dan Otomasi (SNIKO)*, Bandung, 2018.

[4] H.-C. W. H.-Y. C. Chien-HsingWu, „Dual-axis solar tracker with satellite compass and inclinometer for automatic positioning and tracking," *Energy for Sustainable Development,* Bd. 66, pp. 308-318, 2022.

[5] M. T. Septian Ari Kurniawan, „Rancang Bangun Solar Tracker Sumbu Tunggal Berbasis Motor Stepper dan Real Time Clock," *Jurnal Ilmiah Teknologi dan Rekayasa,* Bd. 26, Nr. 1, pp. 1-12, 2021.

[6] B. S. A. S. M. C. Sabir Hossain, „Azimuth-Altitude Dual Axis Solar Tracker," in *International Conference on Mechanical Engineering and Renewable Energy 2015 (ICMERE2015)*, Chittagong, 2015.

[7] S. A. Kalogirou, Solar Energy Engineering: Processes and Systems, Elsevier, 2014.

[8] Sihana, „Solar Parameter," in *Teknologi Termal Surya, Jurusan Teknik Fisika UGM*, Yogyakarta, 2021.

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Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

[9] „Sudut Deklinasi,“ [Online]. Available: https://www.pveducation.org/id/pvcdrom/sudut-deklinasi. [Diakses: 13 04 2022].

[10] „Sudut Azimut,“ [Online]. Available: https://www.pveducation.org/id/pvcdrom/sudut-azimut. [Diakses: 13 04 2022].

[11] S. H. Antonio Luque, Handbook of Photovoltaic Science and Engineering, Chichester: John Wiley & Sons Ltd, 2003.

[12] C. J. Chen, Physics of Solar Energy, New Jersey: John Wiley & Sons Ltd, 2011.

[13] „Fill Factor,“ [Online]. Available: https://www.pveducation.org/pvcdrom/solar-cell-operation/fill-factor. [Diakses: 15 04 2022].

[14] R. D. Gerro Prinsloo, Solar Tracking: Sun Position, Sun Tracking, Sun Following, Stellenbosch: SolarBooks, 2015.

[15] C.-W. W. Kok-Keong Chong, „General Formula for On-Axis Sun-Tracking System,“ in *Solar Collectors and Panels, Theory and Applications*, London, IntechOpen, 2010, pp. 264-292.

[16] S. K. Sahdev, Electrical Machines, Cambridge: Cambridge University Press, 2018.

[17] D. Kho, „Pengertian Motor DC dan Prinsip Kerjanya,“ 22 07 2017. [Online]. Available: https://teknikelektronika.com/pengertian-motor-dc-prinsip-kerja-dc-motor/. [Diakses: 16 05 2022].

[18] „Cara Kerja Motor Servo,“ [Online]. Available: https://www.insinyoer.com/cara-kerja-motor-servo/. [Diakses: 16 05 2022].

[19] „Motor Stepper,“ 22 02 2022. [Online]. Available: http://elektronika-dasar.web.id/motor-stepper/. [Diakses: 16 05 2022].

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Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

[20] „Driver Motor DC H-Bridge Transistor,“ [Online]. Available: https://elektronika-dasar.web.id/driver-motor-dc-h-bridge-transistor/. [Diakses: 23 06 2022].

[21] „What is an Arduino?,“ [Online]. Available: https://learn.sparkfun.com/tutorials/what-is-an-arduino/all. [Diakses: 23 05 2022].

[22] „Arduino IDE,“ [Online]. Available: https://www.javatpoint.com/arduino-ide. [Diakses: 23 05 2022].

[23] „UNO R3,“ [Online]. Available: https://docs.arduino.cc/hardware/uno-rev3. [Diakses: 27 05 2022].

[24] „Arduino Uno,“ 08 05 2022. [Online]. Available: https://en.wikipedia.org/w/index.php?title=Arduino_Uno&oldid=1086736316. [Diakses: 27 05 2022].

[25] „DS3231 RTC Module,“ [Online]. Available: https://components101.com/modules/ds3231-rtc-module-pinout-circuit-datasheet. [Diakses: 27 05 2022].

[26] „17HS Stepper Motor -42mm(1.8 degree),“ [Online]. Available: http://www.motionking.com/show_products_detail.asp?ID=8&fenlei_ID=2. [Diakses: 22 06 2022].

[27] „L298N Motor Driver Module,“ [Online]. Available: https://components101.com/modules/l293n-motor-driver-module. [Diakses: 27 05 2022].

[28] „Micro Servo Motor MG90S - Tower Pro,“ [Online]. Available: https://www.electronicoscaldas.com/datasheet/MG90S_Tower-Pro.pdf. [Diakses: 30 05 2022].

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Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

[29] „Menampilkan Text Pada LCD 16x2 I2C Arduino,“ [Online]. Available: https://www.sinauprogramming.com/2020/10/menampilkan-text-pada-lcd-16x2-arduino.html. [Diakses: 01 06 2022].

[30] A. K. Jerin Kuriakose Tharumuttam, „Design and Development of an Automatic Solar Tracker,“ *Energy Procedia*, Bd. 143, pp. 629-634, 2017.

[31] V. S. Krishna Kumar N, „Real Time Clock based Energy Efficient Automatic Dual Axis Solar Tracking System,“ *Engineering Journal*, Bd. 22, Nr. 1, pp. 15-26, 2018.