

DAFTAR PUSTAKA

- [1] R. Dorf and R. H. Bishop, *Modern Control Systems*, 5 th. Upper Saddle Rive: Pearson Education, Inc, 2011.
- [2] K. Ogata, *Modern Control Engineering*, 5 th. New Jersey: Pearson Education, Inc., 2010.
- [3] N. S. Nise, *Control System Engineering*, 5 th. United States of America: Daniel Sayre, 2012.
- [4] C. H. Chiu and Y. F. Peng, "The implementation of a *rotary inverted pendulum*," *Proc. IEEE Int. Conf. Appl. Syst. Innov. 2018, ICASI 2018*, pp. 1000–1001, 2018.
- [5] M. Patil and S. Kurode, "Stabilization of *rotary double inverted pendulum* using *higher order sliding modes*," *2017 Asian Control Conf. ASCC 2017*, vol. 2018-Janua, pp. 1818–1823, 2018.
- [6] V. A. Arya and A. E. George, "Stabilisation of *Cart Inverted Pendulum* using the Combination of PD and PID Control," *Int. J. Innov. Res. Sci. Eng. Technol.*, vol. 7, no. 4, pp. 3559–3565, 2018.
- [7] F. C. Ahmadi, E. Susanto, and P. Pangaribuan, "DESAIN DAN IMPLEMENTASI *PENDULUM TERBALIK ROTASIONAL DESIGN AND IMPLEMENTATION OF ROTARY INVERTED PENDULUM USING*," vol. 5, no. 3, pp. 3842–3850, 2018.
- [8] A. Lanjewar, S. W. Khubalkar, and A. S. Junghare, "Modeling and *control of fractional order PID controller fed rotary inverted pendulum*," *PICC 2018*, pp. 1–6, 2018.
- [9] A. H. Pole-p and N. S. Reddy, "Optimal PID *control ler design of an Inverted Pendulum m Dynamics : Placement & Firefly Algorithm Ap*," *IEEE First Int. Conf. Control. Meas. Instrum.*, no. Cmi, pp. 305–310, 2016.
- [10] H. Stephani, "Pengendalian optimal untuk *furuta pendulum*," Surabaya, 2010.
- [11] A. Rajan, A. K. A, and K. C. S., "Robust *Control Methods for Swing-Up and Stabilization of a Rotary Inverted Pendulum*," *Int. Conf. Emerg. Technol. Trends [ICETT]*, 2016.
- [12] A. Noorsal, *ANALISA KONTROLER PROPORTIONAL INTEGRAL DERIVATIVE (PID) PADA ROTARY INVERTED PENDULUM*. Padang: JTE FT UNAND, 2019.
- [13] Q. Hidayati and M. E. Prasetyo, "Pengaturan Kecepatan Motor DC dengan Menggunakan Mikrokontroler Berbasis Fuzzy-PID," *JTT (Jurnal Teknol. Terpadu)*, vol. 4, no. 1, pp. 1–5, 2018.
- [14] S. Muttaqin, "Analisa Karakteristik Generator dan Motor DC," *Jur. Tek. Elektro, Fak. Tek. Univ. Diponegoro*, 2013.

- [15] H. D. Young and R. A. Freedman, *University physics with modern physics (14th edition)*, 14 th. San Francisco: Pearson Education, Inc, 2015.
- [16] R. H. Bishop, *MECHATRONIC SYSTEM CONTROL, LOGIC, AND DATA ACQUISITION*, 2 nd. United States of America: CRC Press, 2008.
- [17] L. E. J. Alkurawy and N. Khamas, "Model predictive control for DC motors," *1st Int. Sci. Conf. Eng. Sci. - 3rd Sci. Conf. Eng. Sci. ISCES 2018 - Proc.*, vol. 2018-Janua, pp. 56–61, 2018.
- [18] C. K. Alexander and M. N. O. Sadiku, *Fundamentals of Electric Circuits*, 4 th. Boston: McGraw-Hill Companies, Inc, 2007.
- [19] B. Santosa, B. Acbmad, and E. P. Utomo, "Rancang Bangun Driver Motor DC sebagai Aktuator Sistem Kendali Sumber Elektron Pada MBE," *Pros. Pertem. dan Present. Ilm. Teknol. Akselerator dan Apl.*, pp. 34–45, 2003.
- [20] B. William, *INSTRUMENTATION AND CONTROL SYSTEMS*, 2 nd., vol. 21, no. 6. Waltham: Elsevier B.V., 2005.
- [21] M. Mcroberts, *Beginning Arduino*, 1st ed. New York: Apress, 2010.
- [22] F. Dyan and A. Pro, "Pengaruh Penambah PWM (Pulse Width Modulation) Pada Generator HHO Tipe Dry Cell," *Tek. POMITS*, 2013.
- [23] E. Kreyszig, *Advanced Engineering Mathematics*. Jefferson: Laurie Rosatone, 2010.
- [24] A. Rabbath, C and N. Léchevin, *Discrete-Time Control System Design with Applications*, 1st ed. 2014.
- [25] H. D. Laksono, *Pengantar Pemograman Dengan MATLAB*. Padang: LPTIK Universitas Andalas, 2017.
- [26] Kintan limiansih, Ign Edi Santosa, *Redaman Pada Pendulum Sederhana*, Jurusan Pendidikan fisika, Universitas Sanata Dharma, Yogyakarta, 2013.

