



## DAFTAR PUSTAKA

- [1] N. Hidayanto, Sansuadi and R. C. Nugroho, "Statistik Ketenagalistrikan Tahun 2021," Kementerian Energi dan Sumber Daya Mineral (ESDM), Jakarta, 2021.
- [2] P. Kundur, Power System Stability and Control, McGraw-Hill Education, 1994.
- [3] A.-A. Edris, R. Adapa, M. H. Baker, L. B. K. Clark, K. Habashi, L. Gyugyi, J. Lemay, A. Mehraban, A. Myers, J. Reeve, F. Sener, D. Torgerson and R. Wood, "Proposed terms and definitions for flexible AC transmission system (FACTS)," *IEEE Transactions on Power Delivery*, vol. 12, no. 4, pp. 1848-1853, 1997.
- [4] M. A. Mutegi and N. I. Nnamdi, "Optimal Placement of FACTS Devices Using Filter Feeding Allogenic Engineering Algorithm," *Technology and Economics of Smart Grids and Sustainable Energy*, vol. 7, no. 2, 2022.
- [5] G. Suryanarayana and S. Saumendra, "A New Pilot Relaying Technique for The STATCOM Compensated Transmission Line," *International Journal of Electrical Power and Energy Systems*, vol. 146, 2023.
- [6] A. N. Widiastuti, S. Mahardiko and S. P. Hadi, "Optimisasi PID pada Sistem Mesin Tunggal Terpasang STATCOM dengan Algoritme Flower Pollination," *JNTETI*, vol. 5, no. 1, 2016.
- [7] S. A. Basit and M. Abido, "Design of STATCOM Damping Controller Using Teaching Learning Based Optimization," *IEEE Texas Power and Energy Conference (TPEC)*, pp. 1-6, 2021.
- [8] S. K. Barik, S. K. Mohapatra and A. K. Patra, "Pattern Search Algorithm for STATCOM based Damping Controller Design with Modified Local Input signal," in *International Conference on Renewable Energy*

*Integration into Smart Grids: A Multidisciplinary Approach to Technology*

*Modelling and Simulation (ICREISG), Bhubaneswar, 2020.*

- [9] X. Huang, T. Fang and Q. Zhou, "A Study of Hybrid reactive Compensation," in *China International Conference on Electricity Distribution (CICED)*, Changsha, 2022.
- [10] H. Tariq, S. Czapp, S. Tariq, K. M. Cheema, A. Hussain, A. H. Milyani, S. Alghamdi and Salem Elbabary Z.M., "Comparative Analysis of Reactive Power Compensation Devices in a Real Electric Substation," *Energies*, vol. 15, p. 12, 2022.
- [11] Y. Lee and H. Song, "A Reactive Power Compensation Strategy for Voltage Stability Challenges in the Korean Power System with Dynamic Loads," *Sustainability*, vol. 11, p. 326, 2019.
- [12] R. A and S. Chakraborty, "Performance analysis of smart device — STATCOM for grid application," *2017 IEEE Region 10 Symposium (TENSYMP)*, pp. 1-5, 2017.
- [13] D. S. Restrepo and M. A. Rios, "Adaptive POD for STATCOM in a Power System with High Wind Power Penetration Level," *2019 IEEE Workshop on Power Electronics and Power Quality Applications (PEPQA)*, pp. 1-6, 2019.
- [14] H. Sadaat, *Power System Analysis*, New York: The McGraw-Hill Companies, 1999.
- [15] M. B. Adisiswiyo, "Desain Kendali Kestabilan Sistem Tenaga Berbasis STATCOM Menggunakan Algoritma Genetika," Universitas Gadjah Mada, Yogyakarta, 2016.
- [16] H. F. Wang, "Phillips-Heffron Model of Power System Installed with STATCOM and Application," 1999.
- [17] S. M. Bamasak, "FACTS Based Stabilizers for PowerStability Enhancement," Dahran, 2005.

- [18] S. P. Hadi, "Dynamic Modelling and Damping Function of GUPFC in Multi-Machine Power System," *IPTEK, The Journal for Technology and Science*, vol. 22, no. 4, pp. 205-213, 2011.
- [19] S. Fadhila, S. P. Hadi and A. N. Widiastuti, "Optimisasi Kendali STATCOM pada SMIB dengan Metode Particle Swarm Optimization," Universitas Gadjah Mada, Yogyakarta, 2016.
- [20] N. K. Hasanah, L. M. Putranto and S. P. Hadi, "Peningkatan Stabilitas Tegangan Menggunakan STATCOM dengan Kendali POD pada Sistem Tenaga Listrik," Universitas Gadjah Mada, Yogyakarta, 2022.
- [21] M. R. Banaei, "Enhancement of Power System Stability by Means of SSSC and," in *7th International Conference on Electrical and Electronics Engineering (ELECO)*, Bursa, 2011.
- [22] A. S. Tharani and T. R. Jyothisna, "Design of PSS for Small Signal Stability improvement," in *National Power System Conference*, Hyderabad, 2010.
- [23] S. I. Robandi and A. Priyadi, "Penalaan Power System Stabilizer (PSS) untuk Perbaikan Stabilitas Dinamik pada Sistem Tenaga Listrik Menggunakan Bat Algorithm (BA)," *JURNAL TEKNIK ITS ISSN: 2337-3539 (2301-9271 Print)*, vol. 4, no. 1, 2015.
- [24] Y. Morishita, K. Suzuki and S. Iwamoto, "Lead-Lag PSS Design Based on H Control Theory and Genetic Algorithm," in *IEEE Power and Energy Society General Meeting*, San Diego, 2012.
- [25] A. A. Eldamaty, "Damping Inter-Area and Torsional Oscillation Using FACTS Device," *Saskatoon, Saskatchewan: A Thesis for the Degree of Doctor of Philosophy in Department of Electrical Engineering University of Saskatchewan*, 2005.



UNIVERSITAS  
GADJAH MADA

**Peningkatan Stabilitas Tenaga Listrik Multimesin Berbasis Static Synchronous Compensator (STATCOM)**  
Arsyad Hikam, Prof. Dr. Ir. Sasongko Pramono H, DEA.; Dr. Ir. M. Isnaeni Bambang Setyonegoro, M.T.  
Universitas Gadjah Mada, 2023 | Diunduh dari <http://etd.repository.ugm.ac.id/>

[26] H. Masgumelar, S. P. Hadi and A. Nurwidiastuti, "Studi Pengaruh GUPFC pada Stabilitas Sistem Tenaga Multimesin," Universitas Gadjah Mada, Yogyakarta, 2011.

[27] M. Dorigo, M. Birattari and T. Stutzle, "Ant Colony Optimization," IEEE Computational Intelligence Magazine, Brussels, 2006.

[28] L. W. Permadi and S. P. Hadi, "Penilaian Parameter Kendali GUPFC Pada Sistem Tenaga Multimesin Menggunakan Ant Colony Optimization (ACO)," Universitas Gadjah Mada, Yogyakarta, 2014.