

รายการอ้างอิง

- รัฐพล โพธิ์สังข์. (2563). การสร้างเสถียรภาพของระบบไฟฟ้ากำลังเอเชียเป็นดีซีที่มีโหลดกำลังไฟฟ้าคงตัว โดยใช้ลูปป้อนไปหน้าร่วมกับวิธีการค้นหาแบบตาบู่เชิงปรับตัว (วิทยานิพนธ์ปริญญาวิศวกรรมศาสตรมหาบัณฑิต). สืบค้นจาก <http://sutir.sut.ac.th:8080/sutir>
- อภิชัย สุษะพันธ์. (2564). การสร้างเสถียรภาพเชิงปรับตัวของระบบไฟฟ้ากำลังบนเครื่องบิน (วิทยานิพนธ์ปริญญาวิศวกรรมศาสตรดุษฎีบัณฑิต). สืบค้นจาก <http://sutir.sut.ac.th:8080/sutir>
- อภิชัย สุษะพันธ์. (2558). การวิเคราะห์เสถียรภาพสัญญาณขนาดใหญ่ของระบบไฟฟ้ากำลังเอเชียเป็นดีซีที่มีโหลดกำลังไฟฟ้าคงตัว (วิทยานิพนธ์ปริญญาวิศวกรรมศาสตรมหาบัณฑิต). สืบค้นจาก <http://sutir.sut.ac.th:8080/sutir>
- พลสิทธิ์ คานติประพันธ์. (2559). การควบคุมแบบสัดส่วนร่วมกับเรโซแนนท์เชิงปรับตัวสำหรับวงจรกรองกำลังแอกทีฟในระบบสามเฟสสี่สาย (วิทยานิพนธ์ปริญญาวิศวกรรมศาสตรดุษฎีบัณฑิต). สืบค้นจาก <http://sutir.sut.ac.th:8080/sutir>
- ภักดี สวัสดิ์นะที. (2556). การสร้างชุดขับเคลื่อนมอเตอร์เหนี่ยวนำสามเฟสด้วยวิธีการควบคุมแบบเวกเตอร์ทางอ้อม. (วิทยานิพนธ์ปริญญาวิศวกรรมศาสตรมหาบัณฑิต). สืบค้นจาก <http://sutir.sut.ac.th:8080/sutir>
- โกศล ชัยเจริญอุดมรุ่ง. (2554). แบบจำลองทางคณิตศาสตร์และการวิเคราะห์เสถียรภาพสำหรับวงจรเรียงกระแสสามเฟสแบบควบคุมได้. (วิทยานิพนธ์ปริญญาวิศวกรรมศาสตรมหาบัณฑิต). สืบค้นจาก <http://sutir.sut.ac.th:8080/sutir>
- Weimer, J.A. (1993). Electrical power technology for the more electric aircraft. 12th Digital Avionics Systems Conference. (pp. 445-450).
- Emadi, A., and Ehsani, M. (2000). Aircraft power system: technology, state of the art, and future trends. *IEEE Aerospace and Electronic Systems Magazine*, 15(1), 28-32. doi:10.1109/62.821660
- Rosero, J.A., Ortiga, J.A., Aldabas, E., and Romeral, L. (2007). Moving towards a more electric aircraft. *IEEE Aerospace and Electronic Systems Magazine*, 22(3): 3-9. doi: 10.1109/MAES.2007.340500

- Areerak, K-N., Wu, T., Bozhko, S.V., Asher, G.M., and Thomas, D.W.P. (2011). Aircraft power system stability study including effect of voltage control and actuators dynamic. *IEEE Transactions on Aerospace and Electronic Systems*, 47(4): 2574-2589. doi:10.1109/TAES.2011.6034652
- Wheeler, P., and Bozhko, S.V. (2014). The more electric aircraft technology and challenges. *IEEE Electrification Magazine*, 4(2): 6-12. doi:10.1109/MELE.2014.2360720
- Gao, F., Zheng, X., Bozhko, S., Hill, C., and Asher, G. (2015). Modal analysis of a PMSG-based DC electrical power system in the more electric aircraft using eigenvalues sensitivity. *IEEE Transactions on Transportation Electrification*, 1(1): 65-76. doi:10.1109/TTE.2015.2427312
- Gao, F., Bozhko, S.V., Asher, G., Wheeler, P., and Patel, C. (2016). An improved voltage compensation approach in a droop-controlled DC power system for the more electric aircraft. *IEEE Transactions on Power Electronics*, 31(10): 7369-7383. doi:10.1109/TPEL.2015.2510285.
- Gao, F., Bozhko, S.V., Costabeber, A., Asher, G.M., and Wheeler, P. (2017). Control design and voltage stability analysis of a droop-controlled electrical power system for more electric aircraft. *IEEE Transactions on Industrial Electronics*, 64(12): 9271-9281. doi:10.1109/TIE.2017.2711552
- Ni, K., Liu, Y., Mei, Z., Wu, T., Hu, Y., Wen, H., and Wang, Y. (2019). Electrical and electronic technologies in more-electric aircraft: a review. *IEEE Access*, 7: 76145-76166. doi:10.1109/ACCESS.2019.2921622
- Department of Defense Interface Standard. (2024). *MIL-STD-704F aircraft electric power characteristics*. Retrieved from <https://ieeeli/pdf/standards-handbooks/MIL-STD-704F.pdf>
- Middlebrook, R.D. (1967). Input filter consideration in design and application of switching regulators. *IEEE Industry Application Society Annual Meeting*. (pp. 366-382).
- Jusoh, A.B. (2004). The instability effect of constant power loads. *National Power & Energy Conference*. (pp. 175-179).

- Rivetta, C., Williamson, G.A. and Emadi, A. (2005). Constant power loads and negative impedance instability in sea and undersea vehicles: statement of the problem and comprehensive large-signal solution. *IEEE Electric Ship Technologies Symposium*. (pp. 313-320).
- Emadi, A., Khaligh, A., Rivetta, C.H. and Williamson, G.A. (2006). Constant power loads and negative impedance instability in automotive systems: definition, modeling, stability, and control of power electronic converters and motor drives. *IEEE Transactions on Vehicular Technology*, 55(4): 1112- 1125. doi:10.1109/TVT.2006.877483
- Areerak, K-N., Bozhko, S.V., Asher, G.M., De Lillo, L., and Thomas, D.W.P. (2012). Stability study for a hybrid AC-DC more-electric aircraft power system. *IEEE Transactions on Aerospace and Electronic Systems*, 48(1): 329-347. doi:10.1109/TAES.2012.6129639
- Gao, F., and Bozhko, S.V. (2016). Modeling and impedance analysis of a single DC bus based multiple-source multiple-load electrical power system. *IEEE Transactions on Transportation Electrification*, 3(2): 335-346. doi:10.1109/TTE.2016.2592680
- Mahdavi, J., Emadi, A., Bellar, M.D. and Ehsani, M. (1997). Analysis of power electronic converters using the generalized state-space averaging approach. *IEEE Transactions on Circuits and Systems I: Fundamental Theory and Applications*, 44(8): 767-770. doi:10.1109/81.611275
- Emadi, A. (2004). Modeling and analysis of multi-converter DC power electronic systems using the generalized state-space averaging method. *IEEE Transactions on Industrial Electronics*, 51(3): 661-668. doi:10.1109/TIE.2004.825339.
- Uan-Zo-li, A., Burgos, R.P., Lacaux, F., Wang, F., and Boroyevich, D. (2004). Assessment of multi-pulse converter average models for stability studies using a quasi-stationary small-signal technique. *The 4th International Power Electronics and Motion Control Conference*. (pp.1654-1658).
- Areerak, K-N., Bozhko, S.V., de Lillo, L., Asher, G.M., Thomas D.W.P., Watson A., and Wu T. (2009). The stability analysis of AC-DC systems including actuator dynamics for aircraft power systems. *13th European Conference on Power Electronics and Applications*. (pp. 1-10).

- Chaijarunudomrung, K., Areerak, K-N., and Areerak, K-L. (2011). Modeling and stability analysis of AC-DC power system with controlled rectifier and constant power loads. *WSEAS Transactions on Power Systems*. (pp. 31-41).
- Sopapirm, T., Areerak, K-N., and Areerak, K-L. (2011). Stability analysis of AC distribution system with six-pulse diode rectifier and multi-converter power electronic loads. *International Review of Electrical Engineering*, 6(7): 2919-2928.
- Pakdeeto, J., Areerak, K-N., and Areerak, K-L. (2017). Large-signal model of DC micro-grid systems feeding a constant power load. *International Electrical Engineering Congress*. (pp. 1-4).
- Feng, X., Liu, J., and Lee, F.C. (2002). Impedance specifications for stable DC distributed power systems. *IEEE Transactions on Power Electronics*, 17(2): 157-162. doi:10.1109/63.988825
- Griffo, A., and Wang, J. (2008). Large signal stability analysis of DC power systems with constant power loads. *2008 IEEE Vehicle Power and Propulsion Conference*. (pp. 1-6).
- Weijing, D., Junming, Z., Yang, Z., and Zhoamong, Q. (2011). Large signal stability analysis based on gyrator model with constant power load. *2011 IEEE Power and Energy Society General Meeting*. (pp. 1-8).
- Griffo, A., and Wang, J. (2012). Large signal stability analysis of ‘more electric’ aircraft power systems with constant power loads. *IEEE Transactions on Aerospace and Electronic Systems*, 48(1): 477-489. doi:10.1109/TAES.2012.6129649
- Riccobono, A., and Santi, E. (2014). Comprehensive review of stability criteria for DC power distribution systems. *IEEE Transactions on Industry Applications*, 50(5): 3525–3535. doi:10.1109/TIA.2014.2309800
- Pakdeeto, J., Areerak, K-N., and Areerak, K-L. (2018). The stability analysis of DC micro-grid system with PV array. *International Electrical Engineering Congress*. (pp. 1-4).
- Suyapan, A., Areerak, K., Bozhko, S., Yeoh, S.S., and Areerak, K. (2021). Adaptive stabilization of a permanent magnet synchronous generator-based DC electrical power system in more electric aircraft. *IEEE Transactions on Transportation Electrification*, 7(4): 2965-2975. doi:10.1109/TTE.2021.3081161

- Phosung, R., Areerak, K., Sopapirm, T., and Areerak, K. (2022). Design and optimization of instability mitigation for AC–DC Feeder systems with constant power loads using artificial intelligence techniques. *IEEE Transactions on Power Electronics*, 37(5): 5385-5397. doi:10.1109/TPEL.2021.3136354
- Phosung, R., Areerak, K-N., and Areerak, K-L. (2023). Modeling and stability assessment of permanent magnet machine-based DC electrical power system in more electric aircraft. *Electrical Engineering*, 105, 3175–3190. doi:10.1007/s00202-023-01863-x
- Phosung, R., Areerak, K., and Areerak, K. (2024). Design and optimization of control system for more electric aircraft power systems using adaptive tabu search algorithm based on state-variables-averaging model. *IEEE Access*, 12, 76579-76588. doi:10.1109/ACCESS.2024.3406855
- Phosung, R., Areerak, K., and Areerak, K. (2024). Improvement in the stability of DC electrical power distribution systems in more electric aircraft. *IEEE Access*, 12, 100908-100920. doi:10.1109/ACCESS.2024.3430948
- Liu, X.Y., and Forsyth, A.J. (2005). Comparative study of stabilizing controllers for brushless DC motor drive systems. *IEEE International Conference on Electric Machines and Drives*. (pp. 1725-1731).
- Liu, X.Y., Forsyth, A.J., and Cross, A.M. (2007). Negative Input-Resistance Compensator for a Constant Power Load. *IEEE Transactions on Industrial Electronics*, 54(6): 3188-3196. doi:10.1109/TIE.2007.896474
- Usman Iftikhar, M., Godoy, E., Lefranc, P., Sadarnac D., and Karimi C. (2008). A control strategy to stabilize PWM DC-DC converters with input filters using state-feedback and pole-placement. *INTELEC 2008 - 2008 IEEE 30th International Telecommunications Energy Conference*. (pp. 1-5).
- Rahimi, A. M., and Emadi, A. (2009). Active damping in DC/DC power electronic converters: a novel method to overcome the problems of constant power loads. *IEEE Transactions on Industrial Electronics*, 56(5): 1428-1439. doi:10.1109/TIE.2009.2013748
- Weaver, W.W., and Krein, P.T. (2009). Optimal geometric control of power buffer. *IEEE Transactions on Power Electronics*, 24(6): 1248-1258. doi:10.1109/TPEL.2008.2012260

- Rahimi, A. M., Williamson, G.A., and Emadi, A. (2010). Loop-cancellation technique: a novel nonlinear feedback to overcome the destabilizing effect of constant-power loads. *IEEE Transactions on Vehicular Technology*, 59(2): 650-661. doi:10.1109/TVT.2009.2037429
- Cespedes, M., Xing, L., and Sun, J. (2011). Constant-power loads system stabilization by passive damping. *IEEE Transactions on Power Electronics*, 26(7): 1832-1836. doi:10.1109/TPEL.2011.2151880
- Kim, S., and Williamson, S.S. (2011). Negative impedance instability compensation in more electric aircraft DC power systems using state space pole placement control. *2011 IEEE Vehicle Power and Propulsion Conference*. (pp. 1-6).
- Mohamed, Y.A-R.I., Radwan, A.A.A., and Lee, T.K. (2017). Decoupled reference-voltage-based active DC-link stabilization for PMSM drives with tight-speed regulation. *IEEE Transactions on Industrial Electronics*, 59(12): 4523-4536. doi:10.1109/TIE.2011.2182013
- Zhang, X., Ruan, X., Kim, H., and Tse, K.T. (2013). Adaptive active capacitor converter for improving stability of cascaded DC power supply system. *IEEE Transactions on Power Electronics*, 28(4): 1807-1816. doi:10.1109/TPEL.2012.2213268
- Wu, M., Lu, D.D.C., and Tse, C. (2015). Direct and optimal linear active methods for stabilization of LC input filters and DC/DC converters under voltage mode control. *IEEE Journal on Emerging and Selected Topics in Circuits and Systems*, 5(3): 402-412. doi:10.1109/JETCAS.2015.2462171
- Zhang, X., Zhong, Q-C., and Ming, W-L. (2016). Stabilization of a cascaded DC converter system via adding a virtual adaptive parallel impedance to the input of the load converter. *IEEE Transactions on Power Electronics*, 31(3): 1826-1832. doi:10.1109/TPEL.2015.2469720
- Sopapirm, T., Areerak, K-N., and Areerak, K-L. (2017). The active damping stabilization of AC-DC power systems feeding constant power loads. *International Review of Electrical Engineering*, 12(4): 287-295. doi:10.15866/iree.v12i4.12318
- Areerak, K-N., Sopapirm, T., Bozhko, S., Hill, C.I., Suyapan, A., and Areerak, K-L. (2018). Adaptive stabilization of uncontrolled rectifier based AC-DC power systems feeding constant power loads. *IEEE Transactions on Power Electronics*, 33(10): 8927-8935. doi:10.1109/TPEL.2017.2779541

- Sopapirm, T. (2018). Instability mitigation of a three-phase diode rectifier feeding a controlled buck converter by using the active damping method. *International Conference on Electrical Machines and Systems*. (pp. 745–748).
- Pakdeeto J., Areerak K., Bozhko S., and Areerak., K. (2021). Stabilization of DC microgrid systems using the loop-cancellation technique. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, 9(3): 2652–2663. doi:10.1109/JESTPE.2021.3053349
- Roy, R., and Kapat S. (2021). Input filter-based ripple injection for mitigating limit cycling in buck converters driving CPL. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, 9(2): 1315–1327. doi:10.1109/JESTPE.2020.2985426
- Emadi, A. (2004). Modeling and analysis of multi-converter DC power electronic systems using the generalized state-space averaging method. *IEEE Transactions on Industrial Electronics*, 51(3): 661-668. doi:10.1109/TIE.2004.825339
- Emadi, A. (2004). Modeling of power electronic loads in AC distribution systems using the generalized state-space averaging method. *IEEE Transactions on Industrial Electronics*, 51(3): 992-1000. doi:10.1109/TIE.2004.834950
- Areerak, K-N., WU, T., Bozhko, S.V., Asher, G.M., and Thomas, D.W.P. (2011). Aircraft power system stability study including effect of voltage control and actuators dynamic. *IEEE Transactions on Aerospace and Electronic Systems*, 47(7): 2574-2589. doi:10.1109/TAES.2011.6034652
- Feng, X., Liu, J., and Lee, F.C. (2002). Impedance specifications for stable DC distributed power systems. *IEEE Transactions on Power Electronics*, 17(2): 157-162. doi:10.1109/63.988825
- Griffo, A., and Wang, J. (2008). Large signal stability analysis of DC power systems with constant power loads. *2008 IEEE Vehicle Power and Propulsion Conference*. (pp. 1-6).
- Weijing, Du., Junming, Zhang., Yang, Zhang., and Zhaoming, Qian. (2011). Large signal stability analysis based on gyrator model with constant power load. *2011 IEEE Power and Energy Society General Meeting*. (pp. 1-8).
- Griffo, A., and Wang, J. (2012). Large signal stability analysis of more electric aircraft power systems with constant power loads. *IEEE Transactions on Aerospace and Electronic Systems*, 48(1): 477-489. doi:10.1109/TAES.2012.6129649

- Cespedes, M., Xing, L., and Sun, J. (2011). Constant-power loads system stabilization by passive damping. *IEEE Transactions on Power Electronics*, 26(7): 1832-1836. doi:10.1109/TPEL.2011.2151880
- Liu, X., and Ma, S. (2015). Large signal stabilization method of constant power loads by adding R parallel damping filters. *2015 IEEE Energy Conversion Congress and Exposition*. (pp. 1314–1319).
- Rahimi, A. M., and Emadi, A. (2009). Active damping in DC/DC power electronic converters: a novel method to overcome the problems of constant power loads. *IEEE Transactions on Industrial Electronics*, 56(5) : 1428-1439. doi:10.1109/TIE.2009.2013748
- Rahimi, A. M., Williamson, G.A., and Emadi, A. (2010). Loop-cancellation technique: a novel nonlinear feedback to overcome the destabilizing effect of constant-power loads. *IEEE Transactions on Vehicular Technology*, 59(2): 650-661. doi:10.1109/TVT.2009.2037429
- Wu, M., and Lu, D.D.C (2015). A Novel stabilization method of LC input filter with constant power loads without load performance compromise in DC microgrids. *IEEE Transactions on Industrial Electronics*, 62(7): 4552-4562. doi:10.1109/TIE.2014.2367005
- Mohamed, Y.A-R.I., Radwan, A.A.A., and Lee, T.K. (2012). Decoupled reference-voltage-based active DC-link stabilization for PMSM drives with tight-speed regulation. *IEEE Transactions on Industrial Electronics*, 59(12) : 4523-4536. doi:10.1109/TIE.2011.2182013
- Wu, M., and Lu, D.D.C. (2015). Investigation on active method for stabilization of LC input filter and DC/DC buck converter under voltage mode control. *2015 IEEE 11th International Conference on Power Electronics and Drive Systems*. (pp. 721-726).
- Puangdownreong, D., Areerak, K-N., Sujitjorn, S., and Kulworawanichpong, T. (2004). Convergence analysis of adaptive tabu search. *ScienceAsia Research Article*, 30(2): 183-190.
- Sopapirm, T., Areerak, K-N., and Areerak, K-L. (2012). The identification of AC-DC power system parameter using an adaptive tabu search technique. *International Review of Electrical Engineering*, 7(4): 4655-4662.

- Pakdeeto, J., Chanpittayagit, R., Areerak, K-N., and Areerak, K-L. (2017). The Optimal controller design of buck-boost converter by using adaptive tabu search algorithm based on state - space averaging model. *Journal of Electrical Engineering and Technology*, 3(12): 1146-1155. doi: 10.5370/JEET.2017.12.3.1146
- Sudhoff, S.D., and Wasynczuk, O. (1993). Analysis and average-value modeling of line commutated converter-synchronous machine systems. *IEEE Transactions on Energy Conversion*, 8(1): 92-99. doi:10.1109/60.207411
- Rim, C.T., Choi, N.S., Cho, G.C., and Cho, G.H. (1994). A complete DC and AC analysis of three phase controlled-current PWM rectifier using circuit D-Q transformation. *IEEE Transactions on Power Electronics*, 9(4): 390-396. doi:10.1109/63.318897
- Areerak, K-N., Bozhko, S.V., Asher, G.M., and Thomas, D.W.P. (2008). DQ-transformation approach for modelling and stability analysis of AC-DC power system with controlled PWM rectifier and constant power loads. *Power Electronics and Motion Control Conference*. (pp. 2049-2054).
- Areerak, K-N., Bozhko, S.V., de Lillo, L., Asher, G.M., Thomas D.W.P., Watson A., and Wu T. (2009). The stability analysis of AC-DC systems including actuator dynamics for aircraft power systems. *13th European Conference on Power Electronics and Applications*. (pp. 1-10).
- Chaijarunudomrung, K., Areerak, K-N., and Areerak, K-L. (2011). Modeling and stability analysis of AC-DC power system with controlled rectifier and constant power loads. *WSEAS Transactions on Power Systems*. (pp. 31-41).
- Chanpittayagit, C., Areerak, K-N., and Areerak, K-L. (2014). Modeling of AC-DC power system feeding a controlled buck-boost converter. *2014 11th International Conference on Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology*. (pp. 1-6).
- Lipo, T. A., and Krause, P. C. (1969). Stability analysis of a rectifier-inverter induction motor drive. *IEEE Transactions on Power Apparatus and Systems*, 88(1): 55-66. doi:10.1109/TPAS.1969.292338
- Inoue, K., Kato, T., and Inoue, M. (2012). An oscillation suppression method of a DC power supply system with a constant power load and a LC filter. *2012 IEEE 13th workshop on control and modeling for power electronics*. (pp. 1-4).

- Magne, P., Marx, D., Nahid-Mobarakeh, B., and Pierfederic, S. (2012). Large-signal stabilization of a DC-link supplying a constant power load using a virtual capacitor: impact on the domain of attraction. *IEEE Transactions on Industry Applications*, 48(3): 878-887. doi:10.1109/TIA.2012.2191250
- Suyapan, A., Areerak, K., and Areerak, K. (2017). A controller design of more electric aircraft power systems using an adaptive tabu search algorithm. *2017 International Electrical Engineering Congress*. (pp. 1-4).
- Suyapan, A., Areerak, K., and Areerak, K., (2022). The effect of PMSG parameters and operating conditions on system stability for DC electrical power system in more electric aircraft. *International Conference on Electrical Machines and Systems*. (pp. 1-5).