References

- [1] Luanna Maria Silva de Siqueira and Wei Peng. Control strategy to smooth wind power output using battery energy storage system: A review. *Journal of Energy Storage*, 35:102252, March 2021.
- [2] Yuqing Yang, Stephen Bremner, Chris Menictas, and Merlinde Kay. Battery energy storage system size determination in renewable energy systems: A review. *Renewable and Sustainable Energy Reviews*, 91:109–125, August 2018.
- [3] Jaephil Cho, Sookyung Jeong, and Youngsik Kim. Commercial and research battery technologies for electrical energy storage applications. *Progress in Energy and Combustion Science*, 48:84–101, June 2015.
- [4] Lihua Zhang. Development and Prospect of Chinese Lunar Relay Communication Satellite. Space: Science & Technology, 2021, January 2021.
- [5] Eugene Schwanbeck and Penni Dalton. International Space Station Lithium-ion Batteries for Primary Electric Power System. In 2019 European Space Power Conference (ESPC), pages 1–1. IEEE, September 2019.
- [6] Naixing Yang, Xiongwen Zhang, BinBin Shang, and Guojun Li. Unbalanced discharging and aging due to temperature differences among the cells in a lithium-ion battery pack with parallel combination. *Journal of Power Sources*, 306:733–741, February 2016.
- [7] Fei Feng, Xiaosong Hu, Lin Hu, Fengling Hu, Yang Li, and Lei Zhang. Propagation mechanisms and diagnosis of parameter inconsistency within Li-Ion battery packs. *Renewable and Sustainable Energy Reviews*, 112:102–113, September 2019.
- [8] J. A. Jeevarajan and C. Winchester. Battery Safety Qualifications for Human Ratings. *Interface magazine*, 21(2):51–55, January 2012.
- [9] Daniel Vázquez Pombo. A Hybrid Power System for a Permanent Colony on Mars. Space: Science & Technology, 2021, January 2021.
- [10] Weiji Han, Torsten Wik, Anton Kersten, Guangzhong Dong, and Changfu Zou. Next-Generation Battery Management Systems: Dynamic Reconfiguration. *IEEE Industrial Electronics Magazine*, 14(4):20–31, December 2020.
- [11] H. Visairo and P. Kumar. A reconfigurable battery pack for improving power conversion efficiency in portable devices. In 2008 7th International Caribbean Conference on Devices, Circuits and Systems, pages 1–6. IEEE, April 2008.

- [12] Liang He, Lipeng Gu, Linghe Kong, Yu Gu, Cong Liu, and Tian He. Exploring Adaptive Reconfiguration to Optimize Energy Efficiency in Large-Scale Battery Systems. In 2013 IEEE 34th Real-Time Systems Symposium, pages 118–127, December 2013.
- [13] Hongwen He, Rui Xiong, Xiaowei Zhang, Fengchun Sun, and JinXin Fan. State-of-Charge Estimation of the Lithium-Ion Battery Using an Adaptive Extended Kalman Filter Based on an Improved Thevenin Model. *IEEE Transactions on Vehicular Technology*, 60(4):1461–1469, May 2011.
- [14] S.M. Mousavi G. and M. Nikdel. Various battery models for various simulation studies and applications. *Renewable and Sustainable Energy Reviews*, 32:477–485, April 2014.
- [15] Barrie Lawson. A Software Configurable Battery. EVS26 International Battery, Hybrid and Fuel Cell Electric Vehicle Symposium, 2012.
- [16] Song Ci, Jiucai Zhang, Hamid Sharif, and Mahmoud Alahmad. A Novel Design of Adaptive Reconfigurable Multicell Battery for Power-Aware Embedded Networked Sensing Systems. In *IEEE GLOBECOM 2007-2007 IEEE Global Telecommunications Conference*, pages 1043–1047, November 2007.
- [17] Mahmoud Alahmad, Herb Hess, Mohammad Mojarradi, William West, and Jay Whitacre. Battery switch array system with application for JPL's rechargeable micro-scale batteries. *Journal of Power Sources*, 177(2):566–578, March 2008.
- [18] Hahnsang Kim and Kang G. Shin. Dependable, efficient, scalable architecture for management of large-scale batteries. In *Proceedings of the 1st ACM/IEEE International Conference on Cyber-Physical Systems*, ICCPS '10, pages 178–187, New York, NY, USA, April 2010. Association for Computing Machinery.
- [19] Younghyun Kim, Sangyoung Park, Yanzhi Wang, Qing Xie, Naehyuck Chang, Massimo Poncino, and Massoud Pedram. Balanced reconfiguration of storage banks in a hybrid electrical energy storage system. In 2011 IEEE/ACM International Conference on Computer-Aided Design (ICCAD), pages 624–631, November 2011.
- [20] Taesic Kim, Wei Qiao, and Liyan Qu. A series-connected self-reconfigurable multicell battery capable of safe and effective charging/discharging and balancing operations. In 2012 Twenty-Seventh Annual IEEE Applied Power Electronics Conference and Exposition (APEC), pages 2259–2264, February 2012.
- [21] Liang He, Linghe Kong, Siyu Lin, Shaodong Ying, Yu Gu, Tian He, and Cong Liu. Reconfiguration-assisted charging in large-scale Lithium-ion battery systems. In 2014 ACM/IEEE International Conference on Cyber-Physical Systems (ICCPS), pages 60–71, April 2014.

- [22] Si-Zhe Chen, Yule Wang, Guidong Zhang, Le Chang, and Yun Zhang. Sneak Circuit Theory Based Approach to Avoiding Short-Circuit Paths in Reconfigurable Battery Systems. 68(12):12353–12363.
- [23] Jack Edmonds and Richard M. Karp. Theoretical improvements in algorithmic efficiency for network flow problems. *J. ACM*, 19(2):248–264, apr 1972.
- [24] Shimon Even and R. Endre Tarjan. Network flow and testing graph connectivity. SIAM Journal on Computing, 4(4):507-518, 1975.