





















- [21] G. S. Seth, R. Sharma, and S. Sarkar, "Natural Convection Heat and Mass Transfer Flow with Hall Current , Rotation , Radiation and Heat Absorption Past an Accelerated Moving Vertical Plate with Ramped Temperature," Vol. 8, No. 1, pp. 7–20, 2015.
- [22] A. K. Kundu, *Aircraft Design*. Cambridge University Press, 2010.
- [23] S. Goutam, J. Timmermans, N. Omar, P. Van Den Bossche, J. Van Mierlo, L. Rodriguez, N. Nieto, and M. Swierczynski, "Surface temperature evolution and the location of maximum and average surface temperature of a lithium-ion pouch cell under variable load profiles .," *EEVC 2014 - European Electric Vehicle Congress*, December, 2014.
- [24] Y. Ji., Y. Zhang., & C. Y. Wang, "Li-Ion Cell Operation at Low Temperatures service Li-Ion Cell Operation at Low Temperatures," *Journal of The Electrochemical Society*, Vol. 160, No. 4, pp. A636-A649, 2013.
- [25] T. M. Bandhauer, S. Garimella, and T. F. Fuller, "A Critical Review of Thermal Issues in Lithium-Ion Batteries," *Journal of the Electrochemical Society*, Vol.158, No. 33,pp. R1-R25, 2011.
- [26] W. Østreng, K. M. Eger, B. Fløistad, A., L. Jørgensen-Dahl, Lothe, M., Mejlænder-Larsen, & T. Wergeland, *Shipping in Arctic waters: a comparison of the Northeast, Northwest and trans polar passages*. Springer Science & Business Media, 2013
- [27] A. U. Haque, W. Asrar, A. A. Omar, E. Sulaeman, and J. S. M. Ali, "Hydrodynamic Contour of Steller sea lion-An Inspiration for future Hybrid Buoyant Aircrafts", 4th International Scientific conference on Applied Sciences and Engineering, Langkawi Lagoon Resort, Malaysia, 3-4 October, 2015 .
- [28] A. U. Haque, W. Asrar, A. A. Omar, E. Sulaeman, and J. S. M. Ali, "Estimation of Neutral Point for a Biologically Inspired Hybrid Buoyant Aircraft", *FluidsChe,Langkawi Island*, 25<sup>th</sup> to 27<sup>th</sup> November 2015
- [29] E. Rodrigues and M. Kamiyama, "Computation of Dynamic Loads on Aircraft Structure due to Continuous Gust using MSC/NASTRAN," *MacNeal-Schwendler Co*, 1997.
- [30] A. Design, "Aircraft Design : Synthesis and Analysis Aircraft Design : Synthesis and Analysis."
- [31] C. W. Azlan, M. H., Badrol, A., Roslin, M. S., Mohd Razwan, R., Mohd Azwan, A., Jasman, H., & Mohd Zamri, "A Preliminary Analysis of Solar Irradiance Measurements at TNB Solar Research Centre for Optimal Orientation of Fixed Solar Panels installed in Selangor Malaysia," in 4th International conference on energy and environment, 2012.
- [32] A. Noth, R. Siegwart, and W. Engel, "Design of Solar Powered Airplanes for Continuous Flight," *Environ. Res.*, no. December, p. 18, 2007.
- [33] C. Stockbridge, A. Ceruti, and P. Marzocca, "Airship research and development in the areas of design, structures, dynamics and energy systems," *Int. J. Aeronaut. Sp. Sci.*, vol. 13, no. 2, pp. 170–187, 2012.
- [34] A. S. Gohardani, G. Douleris, R. Singh, and A. S. G. Å, "Challenges of future aircraft propulsion: A review of distributed propulsion technology and its potential application for the all electric commercial aircraft," *Prog. Aerosp. Sci.*, vol. 47, no. 5, pp. 369–391, Jul. 2011.
- [35] Kaltenbrunner, M., White, M. S., Głowacki, E. D., Sekitani, T., Someya, T., Sariciftci, N. S., & Bauer, S. (2012). Ultrathin and lightweight organic solar cells with high flexibility. *Nature communications*, Vol. 3, No. 770, 2012.
- [36] P. G. Carey, R. C. Aceves, N. J. Colella, K. A. Williams, R. A. Sinton, and G. S. Glenn, "A solar module fabrication process for HALE solar electric UAVs," *Conference Record of the Twenty Fourth. IEEE Photovoltaic Specialists Conference*, Vol. 2, pp. 1963-1969, IEEE. 1994.
- [37] D. W. Hall, "Mission analysis of solar powered aircraft", *NASA Report CR-172583*, 1985.
- [38] D. W. Hall, and S. A Hall, *Structural sizing of a solar powered aircraft*. *NASA Report CR-172313*, 1984.
- [39] J. W., Youngblood, T. A. Talay, and R. J. Pegg, *Design of long endurance unmanned airplanes incorporating solar and fuel cell propulsion*. *AIAA Paper 84-1430*, June 1984.
- [40] G. Romeo, and G. Frulla, "Analysis of an advanced composite wing structure for a solar powered airplane" In *XIII AIDAA Congress*, Roma, Sett, 1995, Vol. II, pp. 965-976 (Italian Association of Aeronautics and Astronautics).
- [41] G. Romeo, "Design proposal and wing box manufacturing of a self-launching solar-powered sailplane", *Tech. Soaring*, Vol. 21, No. 4, 106-115, 1997.
- [42] G. Romeo, "Numerical analysis, manufacturing and testing of advanced composite structures for a solar powered airplane",. In *XV AIDAA Congress*, Torino, Italy, November 1999, Vol. II, pp. 1001-1012.
- [43] M. D. Bailey and M. V. Bower. "High-Altitude Solar Power Platform". *Technical Report, NASA-TM-103578*, George C. Marshall Space Flight Center Huntsville, AL, USA, April 1992.
- [44] D. W. Hall, C. D. Fortenbach, E. V. Dimiceli, and R. W. Parks. "A Preliminary Study of Solar Powered Aircraft and Associated Power Trains". *Technical Report, NASA CR 3699*, December 1983.
- [45] Rapert, R. M. *A heat transfer model for a heated helium airship*. *Naval Postgraduate School Monterey CA*, 1987.
- [46] D. Degani, "Effect of geometrical disturbance on vortex asymmetry." *AIAA Journal* Vol. 29, No. 4, pp. 560-566, 1991.

## **BIOGRAPHY:**

A.U.Haque was born in Pakistan in 1977 and did bachelor in Aerospace Engg. from National University of Sciences and Technology (NUST), Pakistan. In 2003, he got degree of Master in Aerospace (with distinction) from University of Sheffield, Sheffield, England. He has about 16 years' experience of R&D organization and has also Civil Aviation Authority (CAA) certified experience of engines and airframes of STOL aircraft. Currently employed as Research Associate for Hybrid Buoyant Aircraft Project of MOSTI (Malaysia) and is enrolled as a PhD Student as well in International Islamic University Malaysia (IIUM), Kuala Lumpur, Malaysia. Major Field of study is related to the Hybrid Buoyant Aircraft Technology. His biography has been included in "Marquis Who's Who in Sciences and Engineering" and "2000 Outstanding Intellectuals of the 21st Century 2009/2010" by International Biographical Centre, Cambridge, England. He has published about 50 research articles in International Journals and peer reviewed International Conferences.