

Bibliography

- [1] S. Ramsey, “NASA Successfully Tests Shape-Changing Wing for Next Gen Aviation,” NASA, Apr. 28, 2015. <https://www.nasa.gov/press-release/nasa-successfully-tests-shape-changing-wing-for-next-generation-aviation> (accessed Jan. 28, 2023).
- [2] S. Daynes and P. M. Weaver, “Stiffness tailoring using prestress in adaptive composite structures,” *Composite Structures*, vol. 106, pp. 282–287, Dec. 2013, doi: <https://doi.org/10.1016/j.compstruct.2013.05.059>.
- [3] F. Dai, H. Li, and S. Du, “A multi-stable lattice structure and its snap-through behavior among multiple states,” *Composite Structures*, vol. 97, pp. 56–63, Mar. 2013, doi: <https://doi.org/10.1016/j.compstruct.2012.10.016>.
- [4] F. Dai, H. Li, and S. Du, “A multi-stable wavy skin based on bi-stable laminates,” *Composites Part A: Applied Science and Manufacturing*, vol. 45, pp. 102–108, Feb. 2013, doi: <https://doi.org/10.1016/j.compositesa.2012.09.015>.
- [5] C. S. Sousa, P. P. Camanho, and A. Suleman, “Analysis of multistable variable stiffness composite plates,” *Composite Structures*, vol. 98, pp. 34–46, Apr. 2013, doi: <https://doi.org/10.1016/j.compstruct.2012.10.053>.
- [6] E. Bartaševičiūtė, “The Power of Aircraft Hydraulic System,” *Aeroclass.org*, Oct. 05, 2021. <https://www.aeroclass.org/aircraft-hydraulic-system/> (accessed Jan. 28, 2023).
- [7] A. Tabor, “Go, Go, Green Wing! Mighty Morphing Materials in Aircraft Design,” NASA, Nov. 02, 2016. <https://www.nasa.gov/ames/feature/go-go-green-wing-mighty-morphing-materials-in-aircraft-design>
- [8] F. A. J. : DFRC, “NASA - NASA Wing-Warping Jet Flies to Oshkosh,” *www.nasa.gov*, Jul. 29, 2003. https://www.nasa.gov/news/highlights/aeroelastic_wing.html (accessed Feb. 05, 2023).

[9] T. D. Crouch, "Wright brothers | Biography, Inventions, & Facts," *Encyclopedia Britannica*. Sep. 27, 2018. Available: <https://www.britannica.com/biography/Wright-brothers>

[10] N. Hall, "Lift Coefficient," *Glenn Research Center | NASA*, Oct. 20, 2022. <https://www1.grc.nasa.gov/beginners-guide-to-aeronautics/lift-coefficient/>

[11] T. Benson, "Wing Area," *Nasa.gov*, 2019. <https://www.grc.nasa.gov/www/k-12/VirtualAero/BottleRocket/airplane/area.html>

[12] L. Jenkinson, P. Simpkin, and D. Rhodes, "Butterworth-Heinemann - Civil Jet Aircraft Design - Aircraft Data File - Boeing Aircraft," *booksite.elsevier.com*, 2001. <https://booksite.elsevier.com/9780340741528/appendices/data-a/table-3/table.htm>

[13] aviationweek.com, *Morphing Wing*. Available: <https://aviationvoice.com/wp-content/uploads/2016/11/FlexSys-and-Aviation-Partners-Display-Morphing-Wing.jpg>

[14] J. Haslam, *Hydraulically operated spoilers on an Airbus A319*. Available: https://i0.wp.com/aerosavvy.com/wp-content/uploads/2014/08/EasyJet_A319_wing_spoilers.jpg?w=796&ssl=1

[15] Altair78, *File:Boeing 747-8F render in flight.jpg*. Available: https://commons.wikimedia.org/wiki/File:Boeing_747-8I_render_in_flight.jpg

[16] H. S. T. M. M. Blok, *Lift Diagram*. Available: https://external-content.duckduckgo.com/iu/?u=http%3A%2F%2F3.bp.blogspot.com%2F-MotuXw7Xu30%2FTsI9EyvM_PI%2FAAAAAAAAAADM%2FJPR6AMAWmXI%2Fs1600%2FAIRworthiness_3.jpg&f=1&nofb=1&ipt=613290795a54a63eb5aa40097df6944d7772f167d868a4092ffe446f4ff5860e&ipo=images

[17] Flexsys, Available: <https://images.squarespace->

[cdn.com/content/v1/5a2ae35251a58473de12123a/1520192520643-](https://images.squarespace-cdn.com/content/v1/5a2ae35251a58473de12123a/1520192520643-)

[ZBOASTG2B8K0PDX8DA1Q/flexsys_com-flexfoil-composite2.jpg?format=500w](https://images.squarespace-cdn.com/content/v1/5a2ae35251a58473de12123a/1520192520643-ZBOASTG2B8K0PDX8DA1Q/flexsys_com-flexfoil-composite2.jpg?format=500w)

[18] M. Taylor, [Flickr]. Available: [https://static1.simpleflyingimages.com/wordpress/wp-](https://static1.simpleflyingimages.com/wordpress/wp-content/uploads/2022/09/27579471087_dcdfbdc1f5_b.jpg?q=50&fit=contain&w=1140&h=&dpr)

[content/uploads/2022/09/27579471087_dcdfbdc1f5_b.jpg?q=50&fit=contain&w=1140&h=&dpr](https://static1.simpleflyingimages.com/wordpress/wp-content/uploads/2022/09/27579471087_dcdfbdc1f5_b.jpg?q=50&fit=contain&w=1140&h=&dpr)

[=1.5](https://static1.simpleflyingimages.com/wordpress/wp-content/uploads/2022/09/27579471087_dcdfbdc1f5_b.jpg?q=50&fit=contain&w=1140&h=&dpr)

[19]

Onur Bilgen, K. Kochersberger, E. C. Diggs, A. J. Kurdila, and D. J. Inman, “Morphing Wing Micro-Air-Vehicles via Macro-Fiber-Composite Actuators,” *AIAA*, Aug. 2007, doi: <https://doi.org/10.2514/6.2007-1785>.