**Peer-reviewed technical papers by J. Philip Barnes**

   Keplerian Orbits, Non-dimensional  [Trip to the Moon](https://www.howfliesthealbatross.com/trip%20to%20the%20moon.pdf)      AAS

[Math Modeling of Airfoil Geometry & Aerodynamics](http://papers.sae.org/961317/)       SAE

[Gear geometry, mesh loss, & windage](https://myagma.agma.org/iweb/Purchase/ProductDetail.aspx?Product_code=97FTM11)                             AGMA

[Semi-empirical Lifting Line Aero, 2D & 3D Wings](http://papers.sae.org/975559/),               SAE

[Math Modeling of Propeller Geometry & Aero](http://papers.sae.org/1999-01-1581/),                  SAE

[How Flies The Albatross: Dynamic Soaring Explained](http://papers.sae.org/2004-01-3088/)        SAE

[Flight Without Fuel: Regen. Elec. Flight Feasibility](http://papers.sae.org/2006-01-2422/)             SAE

[Regenerative Electric Flight: Rotor & Motor Synergy](http://arc.aiaa.org/doi/abs/10.2514/6.2015-1302)      AIAA

[Aircraft Energy Gain From an Atmosphere in Motion](http://arc.aiaa.org/doi/abs/10.2514/6.2015-2552)     AIAA

[Principles of High-efficiency Electric Flight](http://arc.aiaa.org/doi/abs/10.2514/6.2016-4711)                        AIAA

[Hybrid Lifting-line Blade-elem. Method for Prop aero](https://doi.org/10.2514/6.2017-3570)    AIAA

[Configuration Aerodynamics - Classically Applied](https://arc.aiaa.org/doi/abs/10.2514/6.2020-2708) AIAA