## Review of: "A Simplified Model for Propeller Thrust in Oblique Flow"

## Adel Ghenaiet<sup>1</sup>

1 Thermal power, Université des Sciences et de la Technologie Houari Boumediène, Algeria

Potential competing interests: No potential competing interests to declare.

In this paper, propellers in oblique flow have been modeled using Blade Element Momentum Theory coupled to an inflow model, and the Vortex Lattice Method.

## Shortcomings:

- 1. Authors must present some details of the methods and theory used.
- 2. Section II needs a drawing to show different velocity components and forces.
- 3. Explain why the thrust is double in the second line of section II.
- 4. Authors said "twice what it was at the propeller": confirm exactly where?
- 5. Fig. 2 (b) shows a double line; why?
- 6. Is it correct to extrapolate the value of CT at zero velocity directly, since the behavior will not continue as in higher speeds?
- 7. Why are there many curves in Fig. 3?
- 8. Why is the velocity in equation (3) related to the thrust, but not to the blade and flow incidence/direction?
- 9. I disagree that "the crossflow air velocity does not affect the production."
- 10. Why does the thrust change slightly at an incidence of 90 degrees in Fig. 7? It seems illogical.
- 11. Why does figure 8 show a non-constant speed of rotation?
- 12. The same question applies to the thrust.

## Queries:

- 13. There are many typos and linguistic errors. Please read through again and make sure to correct them.
- 14. The abstract should present the problematic. The real contribution in view of similar works should be clearly stated.
- What is the novelty of the work? What methods were used? What are the important results?
- 15. Complete the list of acronyms and symbols.
- 16. The referencing style is not good.
- 17. Better to give N in rpm (revolutions per minute).
- 18. Please do not use "We or our."
- 19. Please number all the equations.
- 20. The validation must be shown with graphics in its appropriate section.



21. Why are results shown in the appendix?