Define brute-force range

According to the published paper, the optimal thrust coefficients occur at , where 2a is defined as peak-to-peak distance of the combined motion. As the need of the brute-force, the should in bigger range in .

图示, 示意图

描述已自动生成

For the pitching and heaving amplitude, and , the ranges are means the heaving amplitude based on the chord length ex. .

In extreme case, the maxima peak-to-peak distance is:

And the minima is:

The currently Strouhal number used in Lylipad is calculated based on the thickness D of the foil. For our case, the NACA 0015, . So,