

Abstract

The aim of my dissertation is to build a propeller for the solar ship of the Antwerp Maritime Academy of Belgium. In the first part, I mostly looked for the different terms and elements that make up a propeller, because propellers and propulsion in general are broad topics and are very relevant today. I also analysed which propulsion system would be the most suitable for the ship. Then, I also presented the numerous limits that a propeller may encounter, such as cavitation or ventilation. Then comes a second and more theoretical part with a method for its construction. The use of the Inventor software, mathematical formulas found in the book Propeller Handbook and of course the different elements given in the first part shall be useful in order to design propellers. Finally comes a conclusion about the construction of propellers.