



## ELABORATION AND CHARACTERISATION OF CARBON/EPOXY AND GLASS/EPOXY COMPOSITE STRUCTURE USED IN AERONAUTICS

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### ABSTRACT

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We have fixed as an objective in this work the characterization by ultrasonic method of composite material used in the aeronautic industry.

The work can be resumed as:

- Elaboration of the composite material in fibreglasses epoxy and carbon epoxy for different thickness (1 to 6.5) mm and for orientation angle of (+ - 45°) and (+ - 60°).
- The research of the ultrasonic parameter which characterise materials such as the velocity propagation and the coefficient of attenuation of the ultrasonic waves in transmission and reflection mode of the elaborated sample.

The results obtained:

- The coincidence of our results with those from the literature.
- The application of the method for the very absorbing material characterization.