



MÉCANIQUE DES MATÉRIAUX ET STRUCTURES COMPOSITES

MECHANICS OF COMPOSITE MATERIALS AND STRUCTURES

Lecturers: Mohammed ICHCHOU, Marc JACOB, Olivier BAREILLE

| Lecturers : 16.0 | TC : 0.0 | PW : 8.0 | Autonomy : 0.0 | Study : 4.0 | Project : 0.0 | Language : AN

Objectives

Keywords : anisotropy
laminated composites
sandwich structures
homogeneization

Programme

Composite structures and materials
Structural models
3D models
Laminated plates' theory
Homogenization
Dynamic behavior
Damages

Learning outcomes

- knowing the types of composites knowing the models homogenization theory mechanism of damage

Independent study

Objectifs : This activity is not concerned with framed autonomy activities outside personal work.

Méthodes : This activity is not concerned with framed autonomy activities outside personal work.

Core texts

Carl T. Herakovich, *MECHANICS OF FIBROUS COMPOSITES*, John Wiley & Sons, 2004
J.N. Reddy *MECHANICS OF LAMINATED COMPOSITE PLATES*, CRC Press, 1997
D. Gay, S. V. Hoa, S. W. Tsai *COMPOSITE MATERIALS: DESIGN AND APPLICATIONS*, CRC Press, 2003

Assessment