Avviso di corso breve

Mechanics of Composite Structures

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Programma:

Lecture 1, Mercoledì 16/05/07 15.00-17.30 aula DIMNP

COMPOSITE MATERIALS:
Preliminaries
Definitions
Properties to be improved
Classification of composites
Mechanical behaviour of a lamina

Lecture 2, Giovedì 17/05/07 15.00-17.30 aula DIMNP

STRUCTURAL ANALYSIS OF LAMINATED COMPOSITE PLATES:
Classical Laminate Plate Theory,
First-Order Shear Deformation
ANALYTICAL SOLUTIONS OF RECTANGULAR PLATES (Navier's Solutions):
Response in Bending, Vibration, Buckling.

Lecture 3, Venerdì 18/05/07 9.00-12.30 aula DIMNP

FINITE ELEMENT ANALYSIS OF COMPOSITE LAMINATES
DESIGN OF COMPOSITE MATERIALS
LAYERWISE THEORY OF COMPOSITE LAMINATES