
Structural integrity evaluation

Finalità

Design of structures against fatigue and fracture and evaluation of the related mechanical properties will be dealt with in this module.

Attività d'esercitazione

Class exercises. Use software for the assessment of the integrity of structures.

Modalità d'esame

Written, plus presentation and discussion of a laboratory work.

Propedeuticità

Comportamento Meccanico dei Materiali

Testi consigliati

N.E. DOWLING "Mechanical behaviour of materials : engineering methods for deformation, fracture, and fatigue", Prentice Hall, 1999.

I.M. DANIEL, O. ISHAI, "Engineering mechanics of composite materials", Oxford University Press, 1994.

S. SURESH: "Fatigue of materials", Cambridge University Press, 1998.

T.L. ANDERSON: " Fracture mechanics: fundamentals and applications", 2.ed., CRC Press Boca Raton, 1995.