IMT Institute for Advanced Studies Lucca
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Computational Fracture and Contact Mechanics
Part 2: Fracture Mechanics

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Durata del corso: 10 ore

Contenuti del corso

The following topics will be covered:
-   examples of fracture in nature and technology;
-   fundamentals of Linear Elastic Fracture Mechanics;
-   bonded joints;
-   Nonlinear Fracture Mechanics, the Cohesive Zone Model;
-   implementation of an interface finite element as a user element subroutine;
-   fracture at the micro-scale, interplay between fracture and plasticity;
-   fatigue.