





Elements of non-linear dynamics

Professor

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Institution

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General Information

The course provides some basic notions on the dynamic behaviour of non-linear mechanical systems. Perturbation methods and the most common algorithms for solving non-linear dynamic problems are also introduced.

Schedule

Dates	Description
29/05/24 (10:00-12:00)	Preliminary remarks. Initial value problems
31/05/24 (10:00-12:00)	Perturbation methods
04/06/24 (10:00-12:00)	Non-linear oscillators: single DOF systems
06/06/24 (10:00-12:00)	Non-linear oscillators: multiple DOF systems
11/06/24 (10:00-12:00)	Continuous systems, finite elements
13/06/24 (10:00-12:00)	Non-linear dynamic analyses. Some example applications
	Total: 12 Hours (INDICEE students: 2 Credits)

Other information

The lessons (in English) will be held in person at ISTI-CNR, Area della Ricerca di Pisa, Via G. Moruzzi 1, Building B, gate 19, 1st floor, room C29 "Faedo". A streaming connection will be available for students who cannot attend in person; the teacher will provide the link.

Information and registration: dott-dicea@unifi.it (www.indicee.unifi.it)