



Instabilities and nonlocal multiscale modelling of materials





AVVISO DI SEMINARIO

Si comunica che **venerdì 21 aprile 2017 a partire dalle ore 11.30** si terrà presso l'aula **C2** (via Mesiano 77) il seguente seminario

Enriched approximations for microstructural modeling and characterization Prof. Angelo Simone

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A variety of discretization methods rely on the enrichment of the approximation space. The enrichment can be considered within a rigorous mathematical framework, as in the eXtended/Generalized Finite Element Method (X/GFEM), or following a more pragmatic approach, as in the Embedded Reinforcement Method. Some of these enriched approximation methods have received increased attention and undergone substantial development in recent years since they offer unprecedented flexibility in the construction of shape functions and corresponding approximation spaces. With the proper selection of enrichment functions, these methods can address many limitations of the classical FEM while retaining its attractive features.

In this seminar I will discuss advantages and disadvantages of some of these methods for the study of boundary value problems at the mesolevel, focusing on the microstructural characterization for polycrystalline materials and fiber-reinforced composites.

Tutti gli interessati sono invitati a partecipare.

II seminario è organizzato dal gruppo di Scienza delle Costruzioni (D. Bigoni, L. Deseri, N.Pugno, A. Piccolroaz, F. Dal Corso, M.F. Pantano, R. Springhetti, D. Misseroni)



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