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# Mechanics of Composite Materials | Computational ... Doctoral Training Centre: Solid Mechanics Dept Engli

Doctoral Training Centre; Solid Mechanics, Dept Engineering Science - University of Oxford. SIMUCOMP Large scale numerical simulation of failure mechanism in composite materials European Union, FP7-EraNet Matera + MAGNO Design and study of magnesium alloys for automotive applications Antolin S.A. & MICINN (CENIT Programme) COMPOSIMPA

#### Projects | Computational Mechanics of Materials Group

The real phenomenon that occurs at the micro level of the composite is simulated via representative volume element. Various techniques used for the analysis are. Modified classical laminate theory; Semi-analytical homogenization schemes; Mechanics of structure genome; Finite element analysis with embedded cohesive zone modelling.

### Multiscale Modelling of Textile Composites - Computational ...

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# Computational Mechanics | Home A multiscale fatigue analysis model is

A multiscale fatigue analysis model is developed for brittle composite materials. The mathematical homogenization theory is generalized to account for multiscale damage effects in heterogeneous media and a closed form expression relating nonlocal microphase fields to the overall strains and damage is derived.

# Computational mechanics of fatigue and life predictions ...

Computational Mechanics. This research line focuses on the development and use of computational modelling techniques for many types of materials and structures, ranging from crystalline metals or composite materials to nanoscale structures and biomaterials. The activities of Dr Antoine Jérusalem and Prof Nik Petrinic involve the development ...

# Research — Solid Mechanics and Materials Engineering The Composites Materials Group (http://www.materials.ide)

The Composites Materials Group (http://www.materials.imdea.org/groups/cm/) at IMDEA Materials, led by Dr. Carlos González and Dr. Cláudio S. Lopes, invites applications for a PhD student position in the field of multiscale computational mechanics of advanced composites. Candidates with interest and knowledge on computational damage mechanics, model development, numerical simulation and optimization methods for advanced composite materials and structures are strongly encouraged to apply.

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