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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.

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A multiscale fatigue analysis model is developed for brittle composite materials.

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The Composites Materials Group
(<http://www.materials.imdea.org/groups/cm/>)
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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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