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the authors of the paper [15] have also developed a new procedure that allows them to obtain an effective crack in the macroscopic stress tensor. the crack is formed by the vanishing of a particular stress component. once the crack has formed, this component of the macroscopic stress tensor increases to its critical value, which is referred to as the strength of the material. this procedure is applied to the macroscale stress tensor. at the macroscale, the effective stress tensor is obtained by a mechanical equilibrium of the microstructure in three dimensions. in order to solve the equilibrium equations, the number of degrees of freedom (dof) must be established. the crack of the material creates the microstructure, which creates new dof. these new dof permit the authors to build the macroscale stress tensor. the authors of the paper [15] have therefore established a procedure to predict multiscale failure. this new procedure is based on the concept of eigendeformation. the idea is to consider that the crack is a particular change in the microstructure of the material at the microscopic scale. this change is equivalent to a change in the elastic modulus of the material. as a result, the stress tensor becomes the so-called effective stress tensor. to take account of the cracks, the authors of the paper [15] have based their gradient theory on the concept of eigendeformation. this new theory explains the relationship between the mechanical behavior of the material and the cracks. the novelty of this theory is its capacity to simulate the transition from the scale of the microscopic microstructure to the macroscale without the need to use a gradient theory. this new theory allows a consistent and accurate modeling of the macroscopic behavior of the material and the progressive increase in the damage. a demonstration of this theory is provided in the paper [15].

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in order to illustrate the potential of the proposed approach, we will build a macroscopic damage model from a numerical analysis of a rve of a unidirectional composite with anisotropic fibers. in section 2, we will describe the main characteristics of our approach, in section 3, we will describe the numerical tests that we will use to build the model, in section 4, we will give the results of our numerical tests and in section 5, we will show the damage model that we obtain. the standard fracture mechanics approach is to consider that the fracture process zone (fpz) in a ductile material is a process zone of size []. since the ductility is the process zone growth rate, it is important to know the constitutive equation for the fpz, i.e., the relation between the strain rate of the material to the fracture process zone. in this paper, a stepwise approach was used to determine the constitutive equation for the fpz from a microscopic fracture theory, and a macroscopic model was developed to predict the growth rate of the fpz. the key idea is to decompose the fracture process zone into a fiber zone and a matrix zone. the fiber zone is composed of the primary cracks and the matrix zone is composed of the secondary cracks. the primary cracks are the first crack to initiate within the fiber zone and are therefore the rate-limiting cracks. the goal is to predict the length of the primary cracks in a material based on its microstructure, the applied stress, and the crack tip opening displacement. because the material failure process is governed by the failure mechanics law, the length of the primary cracks is governed by

the failure mechanics law and the material property law. 5ec8ef588b

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