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le ce shear components of strain tensor, and E 33 is the through-thickness component of strain tensor. Similarily, displacement vector can be divided into two components: ui = u1 u2 u v" = " u3 w w uα where uα is the in-plane components of the displacement vector, and u 3 = w is the out-of-plane components of the displacement vector and also called as the trans-

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