

CREATING SYNTHETIC DATA FOR COMPOSITE INSPECTION

ABSTRACT

A method of generating synthetic data for composite manufacturing inspection comprising creating a three-dimensional model of a composite layup; generating an inconsistency in the three-dimensional model of the composite layup; setting a camera position and a camera orientation in the three-dimensional model space; generating a captured image of the three-dimensional model and the inconsistency from the camera position and the camera orientation; and creating a secondary image from the captured image, the secondary image having colorations of a preselected inspection type.

Fig. 6A