

COMPOSITE STRUCTURE AND METHOD FOR MANUFACTURING SAME

ABSTRACT

Provide is a composite structure having excellent flexural rigidity, lightness, and shape formativeness, and a method for manufacturing the composite structure. A composite structure according to the present invention is a composite structure including a structure that contains first reinforced fibers and first resin and a laminate that is disposed on at least one surface of the structure and has a plurality of layers containing second reinforced fibers and second resin, with the structure and the laminate integrated, the first reinforced fibers being discontinuous fibers and having a thickness-wise average fiber orientation angle in a range of 5 to 60°, the second reinforced fibers being discontinuous fibers and having a thickness-wise average fiber orientation angle in a range of 0 to 5°, the structure having a density in a range of 0.01 to 1 g/cm³, the laminate having a variation in volume content of the second reinforced fibers in a range of 0 to 10%, and the composite structure having a protruding portion on a laminate's surface opposite from a laminate's surface in contact with the structure.

Fig. 1