

OWEN EVANS.

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ACMA4000

MATERIALS AND INTRODUCTION TO PROCESSING

TECHNICAL CERAMICS WOULD NOT BE CONSIDERED AS THEY ARE TOO BRITTLE AND WOULD FRACTURE UNDER IMPACT. MANUFACTURING COSTS WOULD ALSO BE HIGH. USUALLY RESTRICTED TO SMALL FORM PRODUCTS.

C. BOTH MATERIALS PROVIDE A GOOD STRENGTH TO WEIGHT RATIO, WITH COMPOSITES OUTPERFORMING STEEL. COMPOSITES ARE MORE EXPENSIVE TO MANUFACTURE AND ANY FIXING/JOINING SYSTEM WOULD REQUIRE THE USE OF OTHER MATERIALS EMBEDDED IN THE COMPOSITE AS THE MATERIAL CAN NOT BE THREADED, WELDED OR BRAZED, WHEREAS STEEL CAN. THIS ADDS EXTRA COST, PROCESSES AND EXPANDS THE BILL OF MATERIALS FOR COMPOSITE BUILDS. COMPOSITE IS UNRELIABLE, WHEREAS STEEL IS, MEANING THE ENVIRONMENTAL IMPACT OF