

Design of an aluminium spaceframe structure for mechanical fastening

typescript - Chassis



Description: -

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Notes: Thesis (M.Sc.) - University of Warwick, 1999.

This edition was published in 1999



Filesize: 57.54 MB

Tags: #Chassis

Chassis

This effectively adds the front and back which were missing, only instead of using panels, we use tubes to form the brace.

Chassis

Structural stiffness is the basis of what you feel at the seat of your back bottom. Tension is the force trying to pull at both ends of the diagonal. The cylindrical shape helped impart something called Torsional rigidity.

Chassis

Aluminium has an advantage only where there are very thin sections where buckling is possible - but that's not generally the case with tubing - only very thin sheet.

Chassis

Monocoque construction was first widely used in aircraft in the 1930s.

Chassis

. In fact, the ratio of stiffness to weight is almost identical to steel, so an aluminium chassis must weigh the same as a steel one to achieve the same stiffness.

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