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and R.Rangaraju

Materials Science

the Islander Aircraft EX-132

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Islander aircraft, Tyre burst, Wheel hub failure,

Circumferential cracking, Cleavage fracture

sheared off.

A tyre burst had occurred while charging the wheel of an Islander aircraft.

hub made of magnesium-aluminium alloy had Circumferential cracking parallel to the fracture surface of the hub was noticed. The failure of the hub was due to excessive

pressure of air charged to the tyre.

The wheel