

Rotor-mounted digital instrumentation system for helicopter blade flight research measurements

National Aeronautics and Space Administration, Scientific and Technical Information Office - BladeSense research advances rotor blade health monitoring



Description: -

- Helicopters -- Flight testing
Rotors (Helicopters)

Aeronautical instrumentsrotor-mounted digital instrumentation system for helicopter blade flight research measurements

- NASA technical paper ; 1146rotor-mounted digital instrumentation system for helicopter blade flight research measurements

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FBW for the S

The special demands placed on measurement systems for wind generators were fully met. These corrections are then distributed to users.

Aerospace Instrumentation

Even if the manufacturer produces matched blades, differences can occur during normal use and repair. There are no spaces between the fields.

Airbus' "BLADE" laminar flow wing demonstrator makes first flight

Amplitude is the severity of the vibration.

Identification of a Model Helicopter's Yaw Dynamics

Furthermore, the disposal and environmental costs associated with radioactive materials are or can be substantial. A typical accelerometer hooked to a signal conditioner produces a voltage that is directly proportional to the instantaneous acceleration of the accelerometer transducer.

A rotor

This arrangement is to protect against common environmental or ballistic threats for military applications. But the stick that controls the pitch of the S-92's four main-rotor blades will incorporate sensors to communicate stick position and movement to the flight control computers. Controllability is simplified for the pilot since the model-following system demands fewer control inputs to accomplish a given flight maneuver.

A rotor

And in December 2003 an NH-90 utility helicopter prototype with FBW controls made its maiden flight.

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