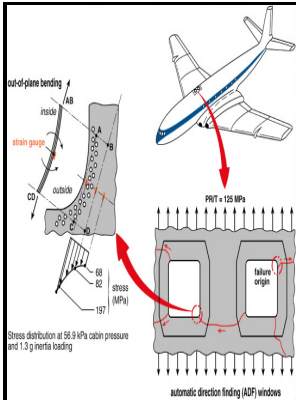


# Effect of thermal stresses on the integrity of three built-up aircraft structures

## Dryden Flight Research Center - Effect of Interference on the Mechanics of Load Transfer in Aircraft Fuselage Lap Joints



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Notes: Bibliographical references: p.15-17.

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### The 5 Key Considerations to Prevent Corrosion

You're looking at OpenBook, NAP. The elements of a fully integrated smart materials system include sensors, signal processors, actuators, and its own power supply. So, IRC recommends 20% of live load should be considered as longitudinal force on the bridges.

### Fatigue Crack

Also, you can type in a page number and press Enter to go directly to that page in the book. Figure 4 illustrates the temperature distribution, the radial and tangential stresses. Any one of these damage modes may be small as regards the representative volume element of the structure in question and therefore viewed as subcritical.

### Thermal stress

However, if the temperature is high enough that it creates an arid environment, then that may slow corrosion since oxidation typically requires the presence of a liquid. An example of this is shown in , in which several key properties are shown to vary with one of the controllable parameters in the microstructure grain size. Wang CH, Rose LRF, Callinan R and Baker AA.

### Major Structural Stresses of the Aircraft

The degradation rate is heating-rate dependent. Determination of the most critical degradation mechanisms depends on what properties are important in a particular application. We expected the mason to cut vertical expansion joints in the wall and to seal these joints with an appropriate flexible filler material or gasket.

### Residual stress

New materials often make improved structural concepts feasible. Pressure was applied using a vacuum bag. Corrugations in the internal structure allow it to flex enough to keep skin stress within tolerable limits.

### **Thermal Residual Stress**

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