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16 - Designing adhesive joints for fatigue and creep load conditions

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Abstract:

Fatigue and creep, along with environmental effects, are the primary concerns in the long-term performance of structural adhesives in-service. This chapter discusses the effects of creep and fatigue loading on adhesively bonded joints and describes the main methods that have been used to model both phenomena. The final section in the chapter discusses how creep and fatigue can be accounted for in industrial design, with particular emphasis on applications in the aerospace and automotive sectors.

Key words

fatigue; creep; damage mechanics; fracture mechanics; viscoelasticity; viscoplasticity

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