

A Dynamic Reversal Bending Fatigue Testing System

Disclosure Number

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Technology Summary

A bending fatigue system has been proposed and developed in this disclosure to test various structural materials in general. The pure bending is adopted as a bending mode of testing system. Use of pure bending method in which a uniform bending moment is exerted on the gage length of specimen apparently eliminates the shear. The latter can eventually lead to a failure mode that is not relevant to the fatigue failure we are concerned with. Two plans or implementations have been presented in this disclosure with emphasis on bending fatigue testing on rod specimen in reversal bending.

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