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2023-11

Data and CAD models of cyclic testing of membrane hinges for use in origami-inspired design

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Skinner, Mitchel, "Data and CAD models of cyclic testing of membrane hinges for use in origami-inspired design" (2023). *ScholarsArchive Data*. 58.

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SUPPLEMENTARY MATERIAL FOR CYCLIC TESTING OF MEMBRANE HINGES FOR USE IN ORIGAMI-INSPIRED DESIGN

CONENTS

DATA

Data_Results - Microsoft Excel Worksheet

This file contains cyclic testing results for each membrane material tested. The applicable date, constrained radius, thickness, modulus of elasticity, yield strength, minimum radius, cycles to visual damage, cycles to failure, and ratio of visual damage over failure cycles for each test is shown.

VIDEOS

OperatingTestingSetup – MOV File

This is a video of the testing setup operating with three membrane hinges.

CAD MODELS

CAD models and STEP files can be accessed in the institution repository, BYU scholar's archive at "insert link here"