

STRUCTURAL REPAIR QUALITY ANALYSIS

Comprehensive Report

59.4%

Overall Quality - FAIR
Fair - Partial Improvement

QUALITY BREAKDOWN:

Frequency Recovery 41.1%
Measures how well structural frequencies recovered after repair

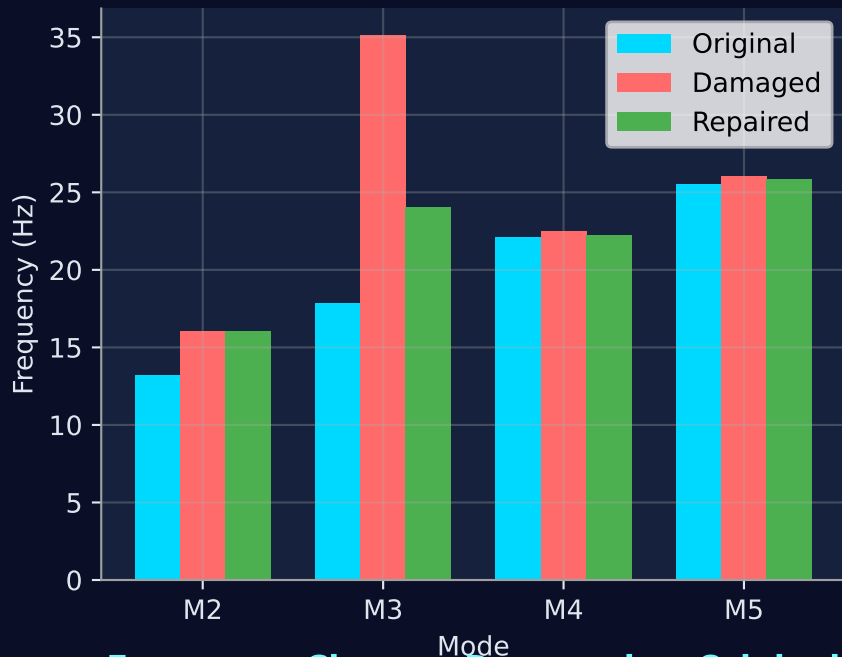
Mode Shape Match 62.7%
Measures similarity of deformation patterns across states

Damping Recovery 100.0%
Measures how well energy dissipation characteristics recovered

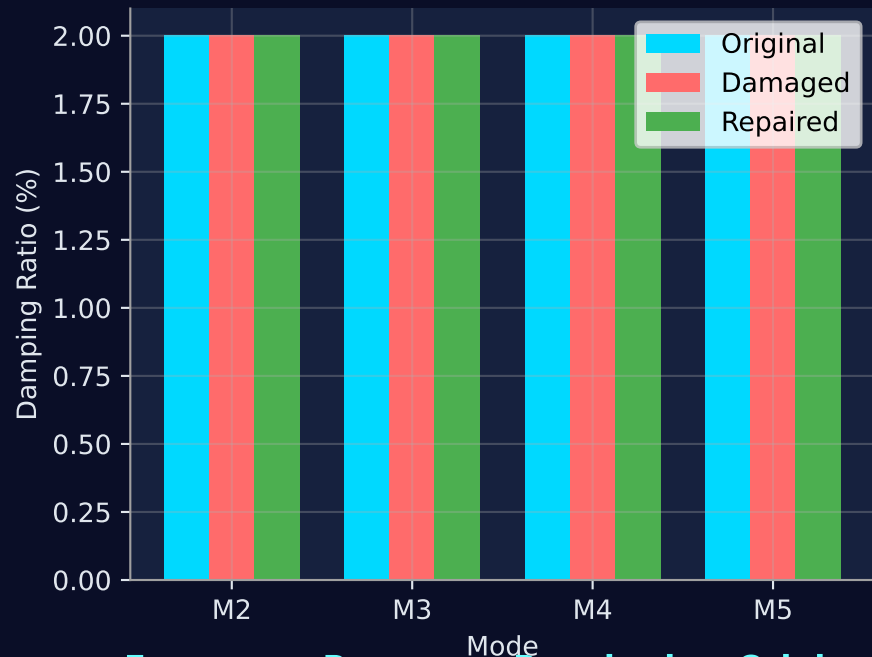
OVERALL ASSESSMENT: Fair - Partial Improvement

Modal Parameters Analysis

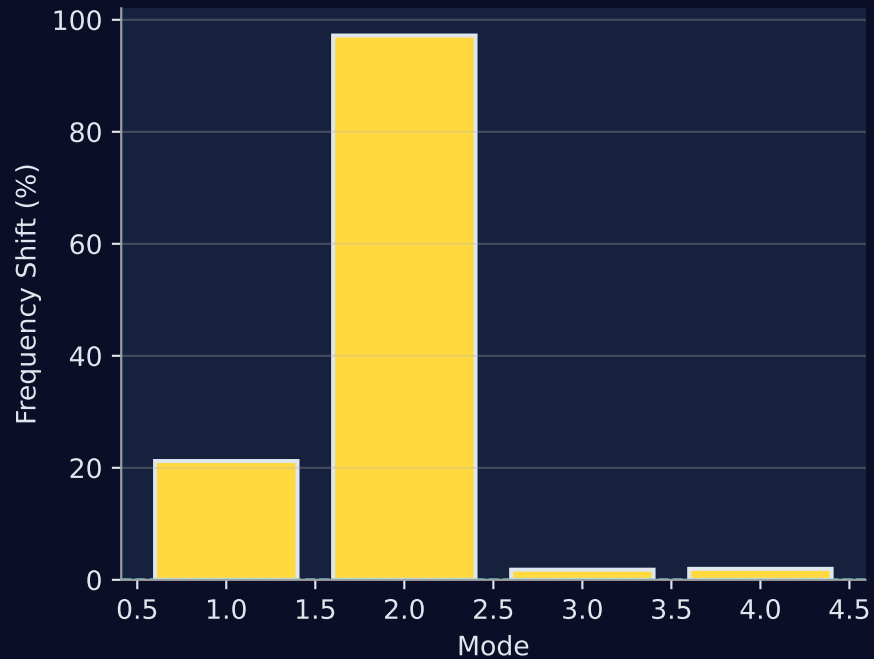
Natural Frequencies



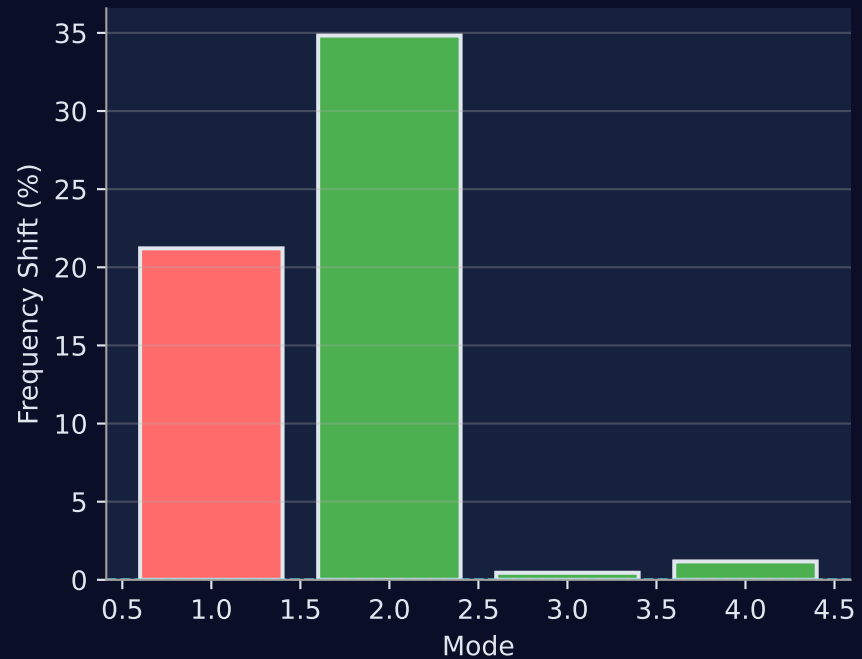
Damping Ratios



Frequency Change: Damaged vs Original

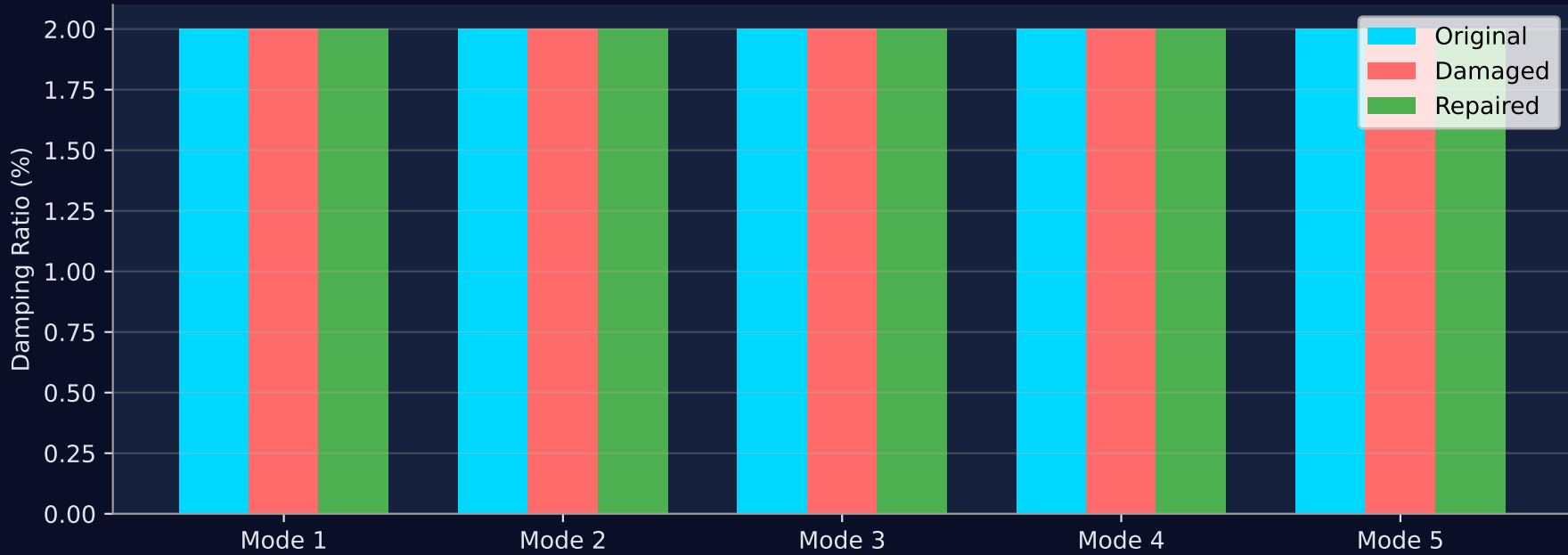


Frequency Recovery: Repaired vs Original

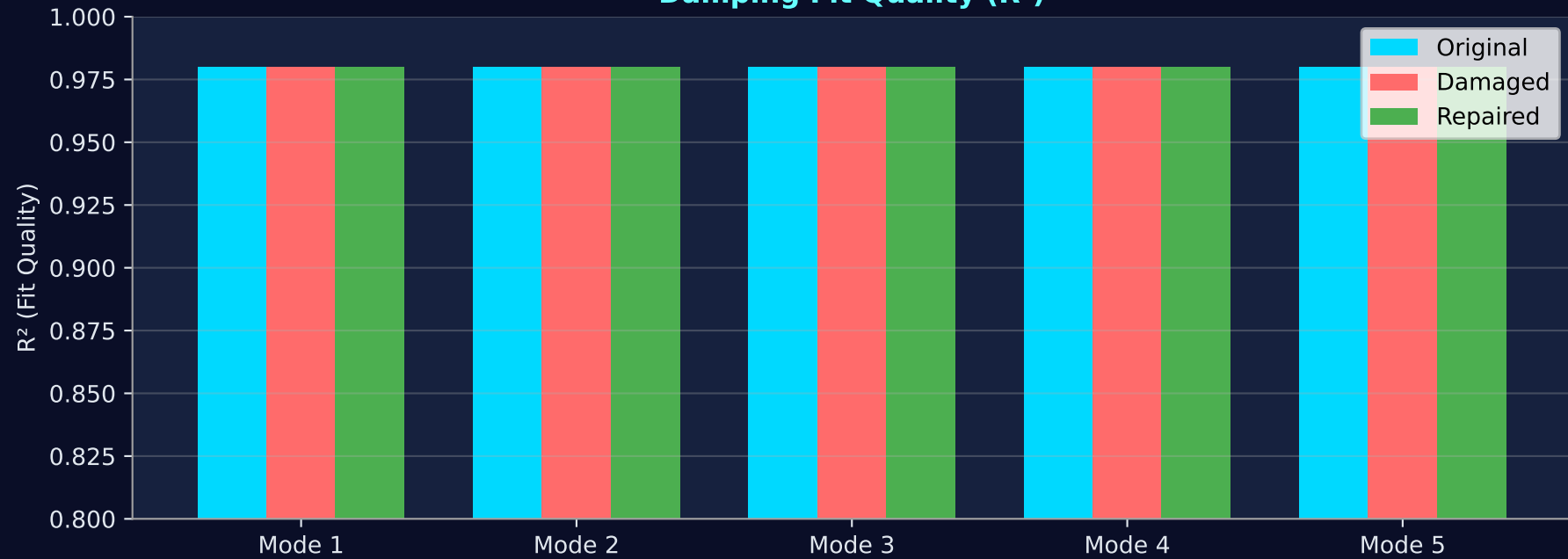


Damping Analysis

Damping Ratio Comparison (%)

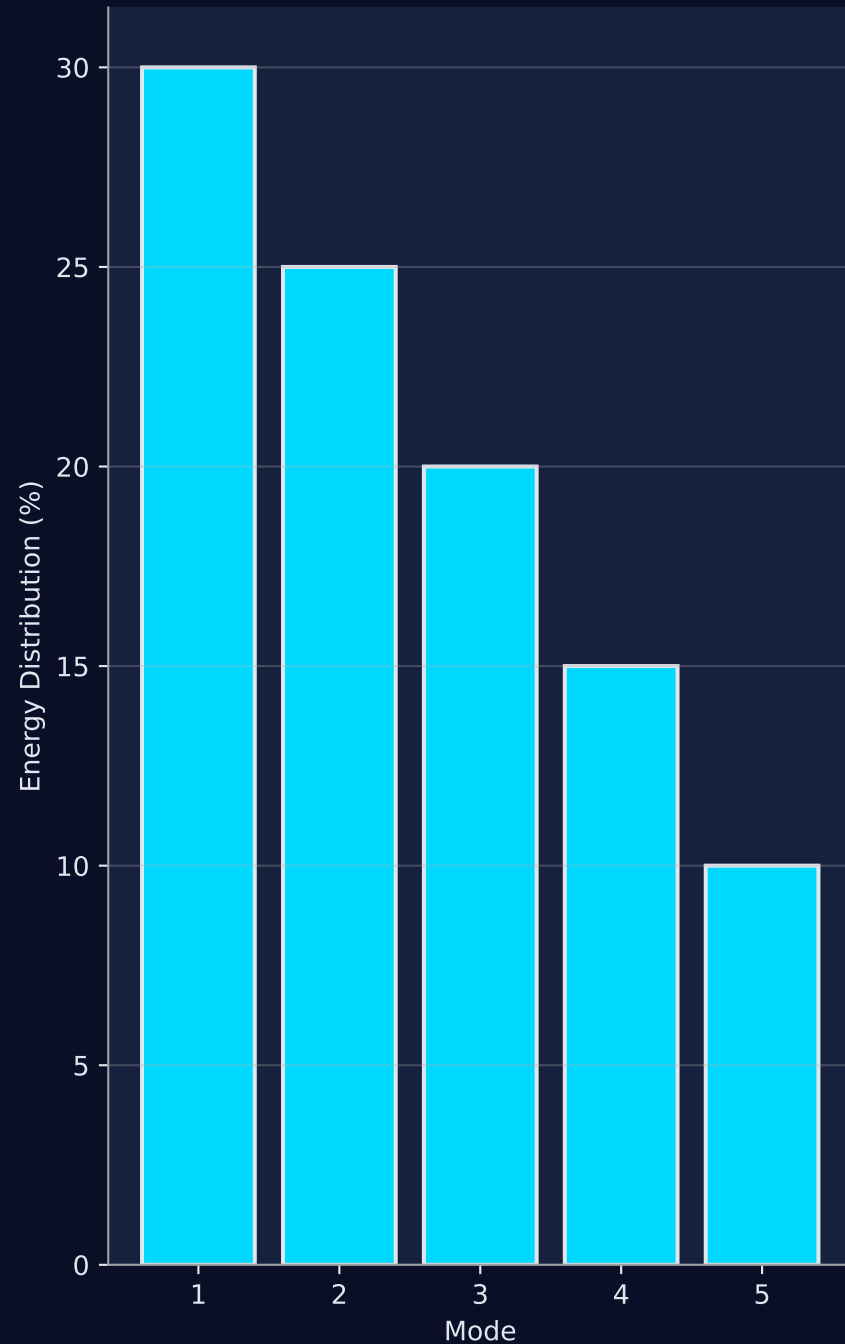


Damping Fit Quality (R^2)



Energy & Quality Analysis

Energy Distribution (Original)



Quality Breakdown

