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Nota di contenuto	Preface -- Contents -- Green Run Modal Test of the NASA Space Launch System Core Stage -- Introduction and Motivation -- SLS Core Stage -- Core Stage Instrumentation -- Modal Excitation --

Data Acquisition -- Test Execution -- Test Results -- Challenges -- Conclusion -- References -- Noncontact Modal Testing of Structures with Closely Spaced Modes Using Multireference Impact Testing and Scanning Laser Vibrometry -- Nomenclature -- Introduction -- Test Article -- Experimental Setup -- Impact Testing -- Modal Shaker Testing -- Results -- Conclusion -- Vibration Analysis of Morphing Wings -- Introduction -- The Model -- Moment of Inertia -- Frequency Analysis -- The Undamped Model -- The Damped Model -- Instability

Sommario/riassunto

Sensors & Instrumentation and Aircraft/Aerospace Testing Techniques, Volume 8: Proceedings of the 42nd IMAC, A Conference and Exposition on Structural Dynamics, 2024, the eighth volume of ten from the Conference brings together contributions to this important area of research and engineering. The collection presents early findings and case studies on fundamental and applied aspects of Shock & Vibration, Aircraft/Aerospace Testing Techniques including papers on: Alternative Sensing & Acquisition Active Controls Instrumentation.