



## SixDOF Testing & Analysis

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# ENGINEERING ANSWERS through TESTING & ANALYSIS

SixDOF Testing and Analysis (6D) provides answers to mechanical engineering challenges throughout all phases of the product lifecycle. From upstream design validation to field testing, troubleshooting and next generation product development we help our customers achieve measurable improvements to product innovation, quality, reliability, and performance.



### Modal Testing

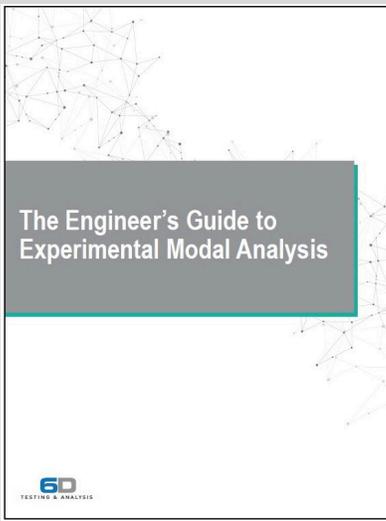
When it comes to vibration and structural dynamics, accuracy matters. SixD's modal testing solutions give engineers the data clarity needed to validate models, refine designs, and reduce costly trial-and-error cycles.

See how our test-to-analysis approach helps you correlate simulation with reality.

[Learn More](#)

Want more? Download our guide...

**"The Engineer's Guide to Experimental Modal Analysis"**



Modal Analysis is an important aspect of the mechanical engineering field of structural dynamics. It plays an important role in product development as well as vibration and stress problem-solving.

This guide focuses on the experimental testing aspects of modal analysis providing an overview of the basic principles and methods involved.

In addition to providing an in-depth dive into the subject, the guide offers useful tips and insights gained through years of practical hands-on experience.

This guide is ideal for:

- Engineers in mechanical, aerospace, automotive, civil, and structural disciplines
- R&D teams conducting vibration testing or product design optimization
- Graduates & researchers working with structural dynamics or FEA validation

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Case Study:

## **Video Amplification as a Tool for Economic Design Validation**

Across the crude dirt roads of the Guatemalan sugar cane fields the trucks are routinely asked to pull multiple trailers at an average load weight of roughly 270,000 more pounds than which they were designed. It was critical to capture the real-world use of the vehicle.

[Read it Here](#)

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