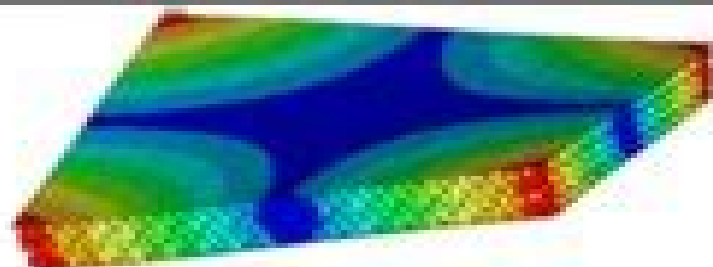
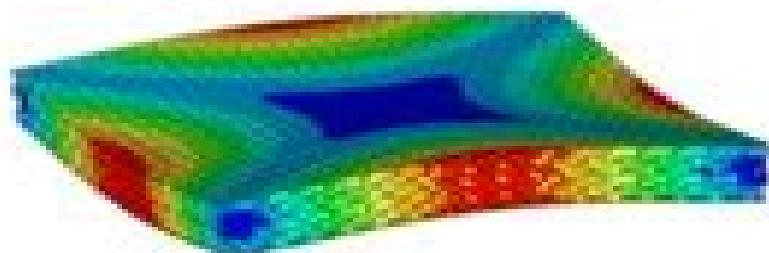


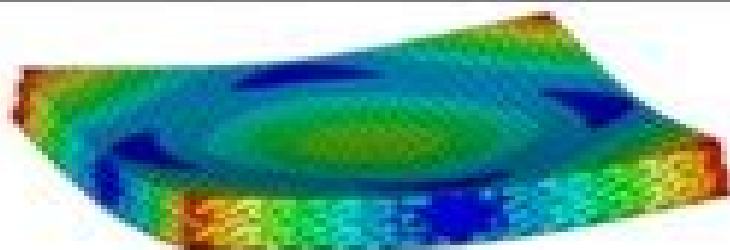
## Modal Analysis



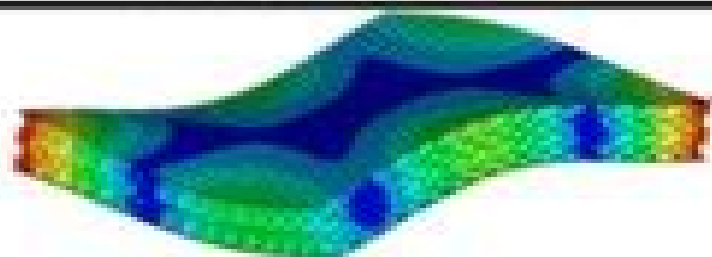
Mode 1: 1868.0 Hz.



Mode 2: 2781.5 Hz.

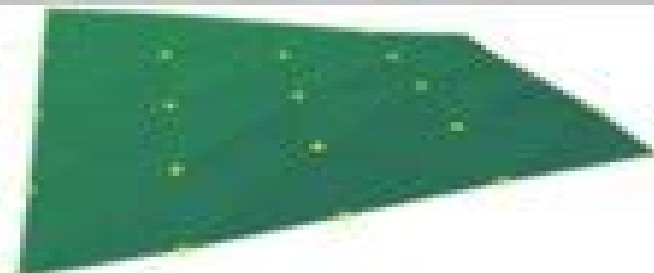


Mode 3: 3389.8 Hz.



Mode 4: 4391.2 Hz.

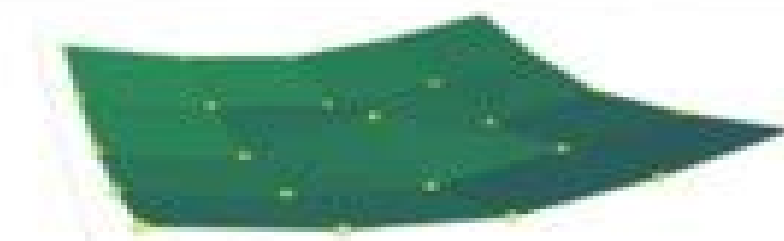
## Modal Testing



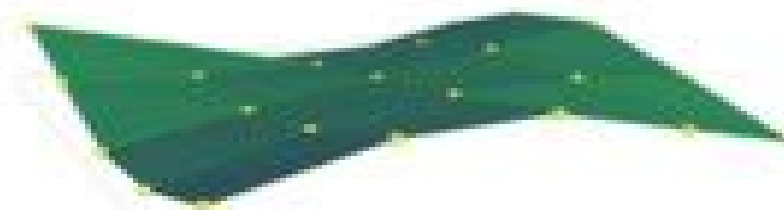
Mode 1: 1890.3 Hz.



Mode 2: 2636.7 Hz.



Mode 3: 3221.2 Hz.



Mode 4: 4447.1 Hz.

# Modal Analysis And Testing

**D. J. Ewins**



## **Modal Analysis And Testing:**

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treats modal testing at the level of the practicing engineer or a new entrant to the field of experimental dynamic testing

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Parameter Estimation Modal Vectors Modeling Basics of Modal Analysis Additive Manufacturing Modal Testing of Printed Parts     *Modal Analysis Theory and Testing* Ward Heylen, Stefan Lammens, Paul Sas, 1998     **Modal Testing and Analysis** Thomas G. Carne, J. C. Simonis, Technical Committee on Vibrations and Sound, Design Engineering Division, American Society of Mechanical Engineers (ASME), 1987     Analytical and Experimental Modal Analysis Subodh V. Modak, 2023-11-28

This book covers the fundamentals and basic concepts of analytical and experimental approaches to modal analysis In practice the analytical approach based on lumped parameter and finite element models is widely used for modal analysis and simulation and experimental modal analysis is widely used for modal identification and model validation This book is inspired by this consideration and is written to give a complete picture of modal analysis Features Presents a systematic development of the relevant concepts and methods of the analytical and experimental modal analyses Covers phase resonance testing and operational modal analysis Provides the relevant signal processing concepts Includes applications like model validation and updating force identification and structural modification Contains simulations examples and MATLAB programs to enhance understanding This book is aimed at senior undergraduates graduates researchers and engineers from mechanical aerospace automotive civil and structural engineering disciplines     Structural Testing Ole Døssing, Brüel & Kjaer (Firm), 1988

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