



## Experimental Structural Dynamics: An Introduction to Experimental Methods of Characterizing Vibrating Structures

By Robert E. Coleman

AUTHORHOUSE, United States, 2004. Paperback. Book  
Condition: New. 226 x 152 mm. Language: English Brand New  
Book \*\*\*\*\* Print on Demand \*\*\*\*\*.It is not uncommon to find  
engineers in test labs or design groups who have not had  
occasion to use the mathematical tools acquired in college.  
When suddenly faced with vibration issues they find themselves  
ill equipped to get a solid grasp of the vibration process. It is  
the intent of this technical reference to provide access to  
vibration theory, initially at a very elementary level, then  
progressing from basic analytical formulations toward the  
more mature mathematical representations associated with  
eigenvectors and the Fourier Transform. Mode shapes are  
introduced without any reference to the eigenvalue problem,  
but connected immediately to simple coordinate  
transformations in two and three dimensions. This allows a  
rather simple picture of operators, ultimately leading to a  
straight forward derivation of the Frequency Response  
Function (FRF) formula. It is hoped that many engineers will  
find their way back into a more analytical approach to  
vibration problems. providing fresh viewpoints from time to  
time, such as the development of modal force as a  
contravariant vector, providing a detailed view of the FRF as a  
superposition of modal...

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