

Vibration Analysis

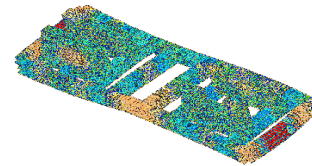
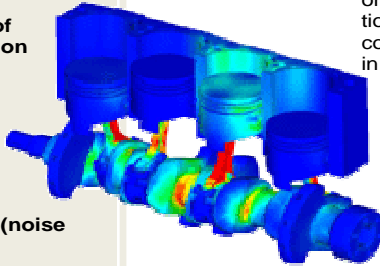
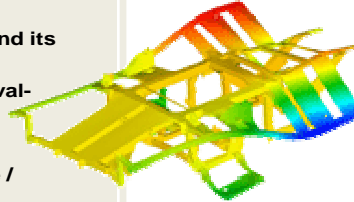
(a Seminar covering theory, FEM Analysis & Applications)

2nd & 3rd June 2011

CSIC Auditorium, Indian Institute of Science, Bangalore

Topics Covered

- ◆ Theory of vibrations (introductory)
- ◆ Fundamentals of sound and its measurement
- ◆ Eigen transforms / eigen values / Eigen Modes
- ◆ Modal analysis
- ◆ Transient dynamics (/sine / shock / bump analysis)
- ◆ Acoustics
- ◆ Rotor dynamics – usage of smart materials for vibration control
- ◆ NVH
- ◆ Seismic Analysis
- ◆ Vibration induced fatigue
- ◆ Vibration damping
- ◆ Measurement techniques (noise and vibration)
- ◆ Damping materials
- ◆ Vibration induced problems in machinery
- ◆ Correlation between FEM Analysis and measurement
- ◆ Marine and off-shore



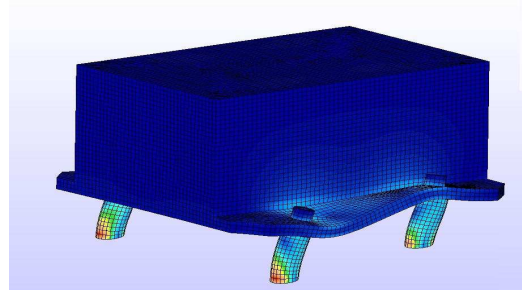
Vibration Analysis has become an integral part of design and design verification process across different industry verticals.

Analysts are expected to conduct a variety of analysis including modal, transient dynamics, shock, and other linear/ non-linear dynamic analysis. The issues of active / passive damping of vibrations, vibration induced fatigue, optimization of structure and material are becoming increasingly important. There is need for the analysts to appreciate the relation between the theoretical issues of vibration, details of vibration analysis methods, and the physical correlation of analysis and measurements in their applications.

Engineering India Foundation is conducting a seminar on 2nd and 3rd June in Bangalore, to address issues and provide a platform for sharing of experience, dissemination of best practices. Seminar will be a forum for close interaction between industry practitioners, academics, R&D professionals, technology providers from different segments of industry verticals/engineering domains.

Industrial applications including, but not limited to:

- ◆ Auto OEMs and Tier-2 or Tier-2 Suppliers
- ◆ Aero / space
- ◆ Electronics (industrial/ consumer) and Instrumentation
- ◆ White Goods and consumer durables
- ◆ Pumps / compressors
- ◆ Motors / Generators /
- ◆ Power plants (thermal / nuclear / Wind)
- ◆ General Engineering (off-road vehicles, heavy engineering, machine tools)
- ◆ Transmission / driveline systems
- ◆ Engine Systems



Pose your Vibration Analysis problem to the experts:

Participants can pose their vibration analysis related problems before they come to the seminar. Organisers will circulate the problem details to the speakers. In the seminar, there will be open sessions, where participants can pose their problem and seek the solution from the speakers and other experienced participants.



For Registration / information

Apply to info@engineeringindia.in,

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