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reducing the vibration  
in exhaust pipe line  
using rubber dampers  
and by counter weights.  
I have modeled a  
sample of exhaust pipe  
line and conducted  
modal analysis in  
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Measurement &

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be an undesired side

effect of poor product

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design or the environment in which the product is operating. It can have a big impact on durability and fatigue, leading to a shorter service life.

Vibration Simulation,  
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Analysis | Ansys  
ANSYS Mechanical,  
known as a generic  
purpose finite element

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program, provides a set of technologies and workflows that allows piping analysis to be an easy task. Some capabilities (contacts, detailed modeling, hybrid model) goes beyond what a typical piping software can do.

Pipe Simulation Using  
ANSYS - A Quick  
Introduction | ANSYS

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Determining the fatigue life of parts under periodic, sinusoidal vibration is a fairly straightforward process in which damage content is calculated by multiplying the stress amplitude of each cycle from harmonic analysis with the number of cycles that the parts experience in the field.

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Modal analysis is used to determine a structure ' s vibration characteristics, i.e., natural frequencies and mode shapes. The harmonic-response analysis is used to determine a structure ' s response to steady, harmonic



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(sinusoidally varying)  
loads. Rotating  
machines exert steady,  
alternating forces on  
bearings and support  
structures.

Introduction to ANSYS  
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Ansys has a range of  
solutions for all the fluid-  
structure interaction  
challenges one may face  
to provide the level of

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fidelity needed. Simple fluid-structure interaction problems can be solved completely within Ansys CFD. This is known as rigid body motion, exemplified by an impeller rotating in a mixing tank.

Fluid Structure Interaction | ANSYS FSI

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membuat analisa vibrasi  
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Tutorial | Fluid Flow  
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Pipe using ANSYS  
Fluent | ANSYS CFD  
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Industrial Piping  
Vibration  
Piping vibrations

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Vibration of process plant piping can be a significant risk to asset integrity and safety.

This is often due to flow induced vibration (FIV) and acoustic induced vibration (AIV), and is related to the flow of the main process fluid through the piping system. Other possible sources of piping vibration include:

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Piping vibrations | Flow  
induced & acoustic  
induced ...

This piping vibration  
analysis (assessment) is  
based on the Energy  
Institute (EI) AVIFF  
Guidelines and other  
applicable  
methodologies and  
makes up an important  
part of an Asset  
Integrity Management

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(AIM) system. Read more about Why to Include Vibration Integrity in Your AIM Program (PDF)

Piping Vibration Analysis & Integrity Assessment ...  
Criteria for seismic analysis compliance and vibration compliance are different. Both need to be addressed

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individually for any system under vibration and seismic concerns.

How do you approach vibration issues on furnace outlet piping where the source of vibration is caused by two-phase flows and other non-rotating equipment issues.

Pipe stress analysis —  
ask the expert |



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- The analysis utilized field vibration data as a means of validating the model predictions.
- The piping and frame structure were initially analyzed separately and later combined into one single model – The piping comprises the first stage recycle loop. Other piping was not

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