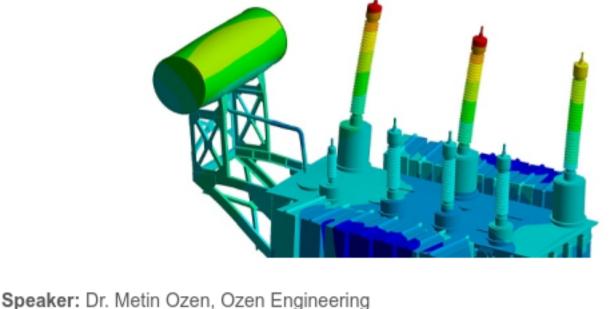




## Structures under Thermal Stress Linear & Non-Linear FEA Applications

Saturday, June 5, 9:00 AM - 4:00 PM PDT



This training seminar, hosted by the ASME Santa Clara Valley Section and presented by Ozen

Engineering, will outline procedures on how to perform linear and non-linear thermal and coupled thermal-stress Finite Element Analyses.

There will be specific examples on what a linear structural analysis is and what makes a

structural analysis non-linear. Similarly, on heat transfer (thermal) simulations, there will be

specific examples on linear simulations and the characteristics of a non-linear heat transfer simulation. There will also be an example on covering theory and application of coupled thermal-stress analysis.

During the seminar, application problems will be set up and run live. Use of the software is not

Register

required for this seminar. No experience with ANSYS is needed for this seminar.

### Linear Structural & Heat Transfer FEA

You will learn:

- FEA Meshing Considerations
- Material Properties for FEA
   Boundary conditions for Structural & Thermal FEA

Non-Linear Structural & Heat Transfer FEA

- Thermal-Stress Analysis
- Static (Steady-State) versus Time-Dependent Problems
- Cost:
  - Non-Member: \$109
    - ASME Member or Engineering Society affiliation\*: \$69

ASME Student, Unemployed, or Retired Member: \$49

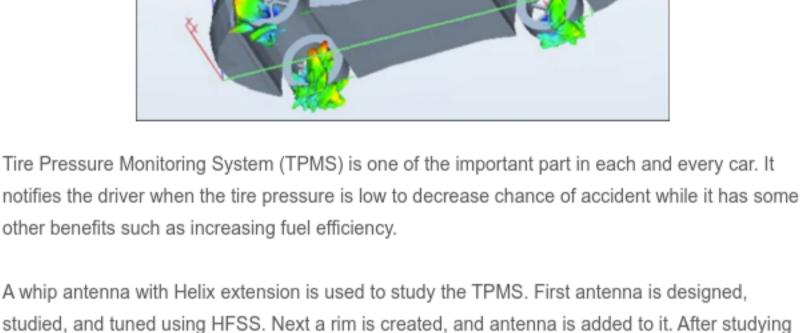
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- Blog Post & YouTube Videos

# 7

Tire Pressure Monitoring System (TPMS) Antenna Simulation

and Calculating Link Budget



done one more time and the receiver antenna is added.

Learn more by viewing our <u>blog post</u> and watching our instructional YouTube videos.

Did you know?

Did you know:

A bit of trivia to hopefully enlighten your day and amaze your family and fellow engineers.

the rim, antenna and tuning them, a box is added to the model to represent a car. Then, tuning is

Isaac Newton invented the cat door

the wristwatch was invented in 1904

Shakespeare invented the words 'assassination' and 'bump'

by women

### instant mashed potatoes (dehydrated potato flakes) were invented in Canada in 1962 bulletproof vests, fire escapes, windshield wipers, and laser printers were all all invented

Upcoming Ansys Webinars

Accelerating Discovery with Ansys Cloud

You can also view all of the upcoming webinars by visiting our <u>Training Calendar</u>.

Learn about how you can now access Ansys Discovery on Ansys Cloud, eliminating the need for

specific GPUs on your local workstation. Discovery combines live physics, interactive geometry

### Process Integration and Democratization of CAE Workflows in the Automotive

May 5, 2021 - 6:00 AM PDT

<u>Industry</u>

May 4, 2021 - 8:00 AM PDT

modeling and high-fidelity physics.

Thermal Performance of Inverter Bus Bars with Complex Harmonic Content

May 6, 2021 - 8:00 AM PDT

This webinar spotlights Ansys 2021 R1's new capabilities for coupling accurate loss density

Learn an alternative approach to teaching materials science that emphasizes a cohesive

engineering design philosophy and teaches students how to "think like a materials engineer.

Learn the basics as well as the implementation of automation and democratization of CAE

workflows for the automotive industry with Ansys optiSLang and Ansys Minerva.

calculations to thermal solvers for predicting the temperature of bus bars.

## Ansys Fluid-Structure Interaction Simulation for Muzzle Brake Structural

Teaching Design-Led Materials Science

Integrity May 12, 2021 - 8:00 AM PDT

May 11, 2021 - 8:00 AM PDT

This webinar will demonstrate how Ansys Fluent and Ansys Mechanical can be used to compute the loads which muzzle brakes are subjected to and the resulting stresses and deformations of the structure.

Try Ansys Cloud with a Free Trial!

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