



Industry Expert Breakfast

Transfer Path Analysis - How to get to the root cause of noise and vibration issues?

January 17, 2019 in Zurich

Siemens Auditorium, Freilagerstrasse 40, 8047 Zürich, Tel. +41 (0)44 755 72 72

Presented by: *Dr. Filip Deblauwe, EMEA Centre of Excellence, Siemens PLM Software*

Dr. Deblauwe received a bachelor degree in Mechanical Engineering from the Katholieke Universiteit Leuven in Belgium and a Ph.D. from the University of Cincinnati USA. He joined LMS, now Siemens PLM, in 1991. In the 90's, Dr. Deblauwe has brought products like sound quality, sound source localization and transfer path to the market. Currently Dr. Deblauwe is technical test manager for Siemens PLM EMEA and is responsible for all Siemens PLM test products.

Program

08:30 Registration & Breakfast

09:00 Welcome

09:05 Fundamentals of TPA

How to speed up the TPA process by using operational TPA and what to pay attention to. The classical TPA process (Structure-borne loads estimation, airborne loads estimation, acoustic source quantification, gathering high-quality FRF data).

10:25 Strain TPA

Classical TPA is normally done in the frequency domain and the measurements are typically accelerations and pressure. However there are situations where strain measurements instead of acceleration can provide better results.

10:45 Break

11:15 Time TPA

For certain transient applications, a frequency domain TPA won't provide a correct insight into the problem since the problem is rather time related than frequency related. Doing a TPA analysis in the time domain resolves this issue.

11:35 Component-based TPA (blocked forces TPA)

The forces obtained with classical TPA are the correct connection forces for a particular configuration of the structure. However these forces can't be ported to a structure with a different configuration. Component TPA allows you to obtain forces that are property of the component, and these component forces can be converted into reaction forces for a particular configuration.

12:30 Lunch & Networking

After the event our experts are pleased to answer your questions in a comfortable atmosphere.

Registration: www.siemens.com/plm/TPA