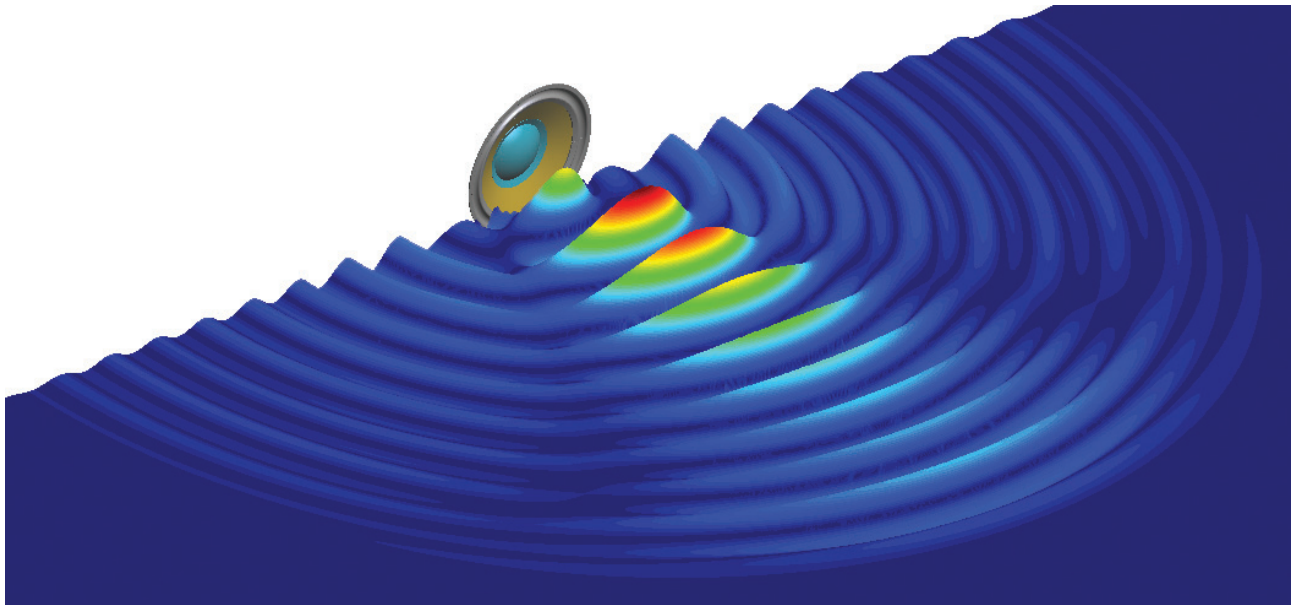


SERVICES AND SOFTWARE SOLUTIONS



Acoustics and Vibroacoustics

The acoustic behavior becomes a more and more important aspect in product design, whether noise emission is to be reduced or whether sound quality is to be improved. As production of prototypes may be a costly and lengthy process, simulation driven development has become an indispensable part of modern product design.

To aid our customers in improving the acoustic properties of their products, SIMetris offers a large variety of vibroacoustic services and software solutions. Our customers benefit by a single partner proficient with measurement and simulation services.

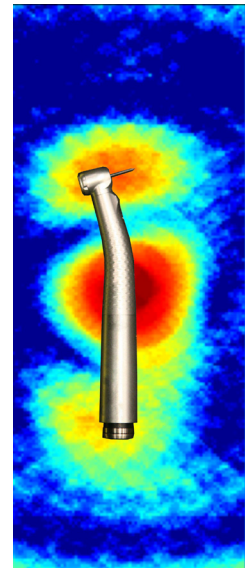
Measurements

The acoustic measurement services provided by SIMetris include sound power, sound intensity, and sound pressure measurements either on site or in our anechoic chamber.

Noise emitting parts of a device are easily identified by a 64 channel microphone array. For the visualization of vibrations a scanning laser doppler vibrometer can be used.

Virtual Product Development

The NACS software suites are developed and marketed by SIMetris to support the on-site virtual product development. Consultancy services including model generation, causal research, and virtual prototyping projects are also provided by SIMetris.



Software Solutions

NACS

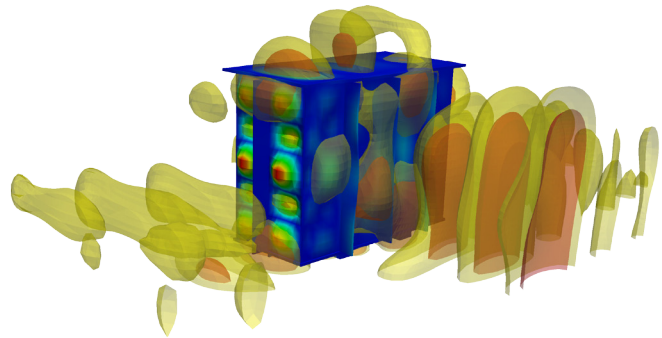
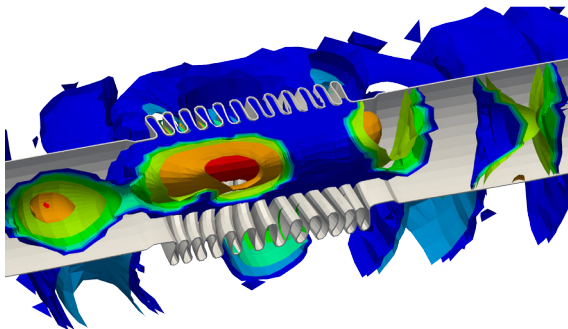
- ▲ Vibroacoustic Suite
- ▲ Magneto-mechanical-Acoustic Suite
- ▲ Piezoelectric-Acoustic Suite

Tailored Features

- ▲ Traveling and standing wave fields
- ▲ Coupled eigenfrequencies
- ▲ Sound in moving media
- ▲ Nonlinear waves

Fields of Application

- ▲ Loudspeakers
- ▲ Power Train Noise
- ▲ Microphones
- ▲ Noise Reduction
- ▲ Sound Design
- ▲ Traffic Noise
- ▲ Consumer Products



Industries

- ▲ Energy
- ▲ Automotive
- ▲ Medical
- ▲ Process Industry
- ▲ Public Transportation
- ▲ Audio Engineering

Company Profile

Services

- ▲ Simulation Services
 - ⊙ Model Generation
 - ⊙ Causal Research
 - ⊙ Optimization
 - ⊙ Virtual Prototyping
- ▲ Computer Aided Measurements
 - ⊙ Acoustics and Vibroacoustics
 - ⊙ Modal Analysis
- ▲ Material Parameter Identification
 - ⊙ Piezoelectric Materials
 - ⊙ Magnetic Materials
 - ⊙ Acoustic Materials

Software

- ▲ Finite Element Software NACS
 - ⊙ Magneto-mechanics
 - ⊙ Piezoelectricity
 - ⊙ Vibroacoustics
- ▲ ANSYS Enhanced Solution Partner
 - ⊙ NACS Acoustics for ANSYS Workbench
- ▲ Pre- and Postprocessor GiD
 - ⊙ German Reseller



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