

Dear Students and Professors

We would like to introduce you to our new Student Edition software for acoustic simulation to complement your acoustic learning and education programs.

The Actran Student Edition offers students and educators computational acoustic simulation capabilities comparable to those used in various industrial sectors in an accessible format ideal for teaching and home study/self-learning purposes.

For many years, Actran has been recognized as the reference tool for acoustic simulation in industries such as automotive, aerospace, shipbuilding and audio devices. We strongly believe that numerical acoustics will continue to play an important role in an ever-broader range of industrial sectors in the future.

As professors ourselves for more than 20 years, we often think of students in our classes and others around the world trying to understand the fundamentals of acoustics and vibration. We also think of teachers, like us, who look for more intuitive and effective acoustic educational tools. These two considerations combined brought us to make the Student Edition of Actran available to both students and teachers of acoustics.

We created the Actran student edition to promote the effective use of acoustic simulation software by students and teachers and to share our experience in educational programs. Several realities of acoustic engineering and education spurred our decision:

- Numerical simulation is part of most engineering education programs;
- Acoustic phenomena such as radiation, scattering and transmission can be efficiently modeled and visualized using Actran;
- In that sense, the results of numerical simulation can really help to understand the physics behind acoustics;
- Well-trained students will find an easy and smooth transition from the academic world to industry where they are likely to use Actran in more professional ways.

Actran Student Edition and its supporting materials include both a theoretical background on key acoustic phenomena and a step-by-step description of the modeling process. This description begins at setup of the numerical mode and continues through running the simulation to interpreting the results.

We pay attention to the comparisons of computed numerical solutions with reference analytical solutions. We also emphasize the examination of the convergence process of numerical methods. The objective of the exercises is to produce meaningful results and to secure the related computational process.

Another key part of the tutorials is to show the link between simple Actran models and the real industrial applications based on the same simulation principles. This highlights the value of acoustic simulation in today's complex industrial environments.

We hope that with the Actran Student Edition, students will find studying acoustics more enjoyable and productive. Teachers will have an efficient tool as a complement to their teaching programs. And finally, today's students will be better prepared with adequate knowledge for tomorrow's needs.

Yours Faithfully,



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