

IntelliSense Software announces the release of a new integrated PiezoMEMS™ design tool

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IntelliSense Software announced the immediate availability of its PiezoMEMS™ modeling tools for its IntelliSuite® package. The tools allow users to perform coupled 3D piezoelectric and piezoresistive modeling.

Sandeep Akkaraju, the CEO of IntelliSense, remarked "Over the years, the process technology behind piezo-films has matured. However, modeling tools have lagged behind considerably. The release of the PiezoMEMS tools reflect our continuing commitment to the MEMS community. A maturing process technology combined with state-of-the-art modeling tools will allow for the wide-spread deployment of piezo-technology in commercial applications."

Dr. Shad Roundy, a professor at the Australian National University remarked, "The amount of effort that goes into the model development makes quantitative evaluation and comparison of a broad range of potential piezoelectric structures difficult. Additionally, it makes system level optimization difficult because of the large effort required to integrate the piezoelectric model with circuit modeling software."

"An integrated tool, like IntelliSense's PiezoMEMS™, will vastly increase the design space that can be explored within a given time, and thus will lead to improved designs and shorter design cycles."

Dr. Roundy is one of the leading authorities in power scavenging. He has published the first book on the subject. He is investigating the use of piezoelectric MEMS for energy conversion and storage.

Dan Keating, Manager of Applications Technology at IntelliSense remarked, "Piezo-technology has received a boost with Agilent's use of FBAR technology in wireless communications. The applications for piezo-MEMS are growing. Piezo applications will have explosive growth in MEMS microphones and power scavenging applications."

IntelliSense's PiezoMEMS tool was designed for real world applications such as film bulk acoustic resonators (FBAR) and acoustic-structural coupling applications such as MEMS microphones. The PiezoMEMS tool extends IntelliSuite's capability to perform a full suite of electromechanical and high frequency electromagnetic analyses of piezo devices. Unlike other tools on the market that resort to reduced order modeling, PiezoMEMS™ performs sophisticated high frequency FEM/BEM analysis. Full dynamic simulations including spectral, transient, harmonic, and modal can be performed.

PiezoMEMS is the first comprehensive CAD tool for piezoelectric and piezoresistive modeling. It follows in IntelliSense's tradition of bringing maturing technologies to the market faster. IntelliSense has had a series of firsts in the CAD industry, releasing the first software tool for MEMS (1993), the first integrated CAD tool for MEMS (1995), the first MEMS CAD tool for the PC (1997), the first microfluidic tool for MEMS (1999), the first tool for RF MEMS (2001), and the first comprehensive bioMEMS tool (2003).

IntelliSense Software is the leading supplier of solutions for the MEMS professional. Its IntelliSuite® family of CAD tools ignited the MEMS industry in the 90's and is now used by universities and corporations. IntelliSense offers software tools and custom design, consulting, and market research services to universities, blue-chip companies, and startups worldwide. With users in over 20 countries, and partnerships with dozens of leading MEMS research institutes, IntelliSense Software is recognized as the leading innovator in MEMS design and development.

Today IntelliSense Software operates as a fabless MEMS company with strong affiliations with foundries worldwide. Our comprehensive expertise in all areas of MEMS allows our customers to commercialize new products faster.

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