

Forschungsgesellschaft für Feingeräte-, Mikro- und  
Uhrentechnik (FFMU) e.V.

Forschungsinstitut für Mikro- und Informationstechnik  
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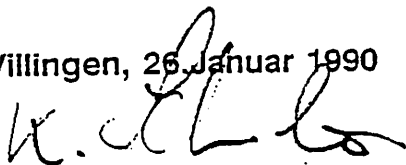
**S t a t e m e n t :**

The FFMU is a research organization consisting of about 70 company members in the region of Baden-Württemberg, who are working in the field of fine and precise machining, sensors/transducers and microelectronics. The FFMU is mainly supported by the government and the ministry of science and technology (BMFT). The results of our research are mainly for public domain. The function of the FFMU is to transfer 'know-how' and technology in their research fields to the industry and to their member companies.

The 'Institut für Mikro- und Informationstechnik' of the FFMU have research activities on the field of silicon/quartz micromachining, especially micro-mechanics, integrated optics and microelectronics and is applying/developing software tools for the structured design of complex microsystems. Beside CAE- and ECAD-tools FEA-tools are very important for device- and (semiconductor) process modeling of microsystems like sensors and actuators. ANSYS will be applied in static, dynamic and piezoelectric problem solving. Also coupled field analysis (i.e. thermal induced stress, electro-magnetism, etc.) is gaining more and more importance in optimizing transducer/microsystem design.

The FFMU will undertake some effort in developing such engineering software tools by itself and improve commercial software packages (ANSYS) for the special demand of microtechnics.

Villingen, 26. Januar 1990



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