



Numerical and experimental investigations of cross flow fans

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The prediction of performance characteristics and flow field data of cross-flow fans (CFF) is difficult due to the complex flow structure and working principle. Numerical methods will become more important in order to get a better knowledge of the complex flow-phenomena in CFF and will lead to a reduction of experimental work in the process of development and construction. CFD calculations are carried out to compute the flow field and the performance of CFF. For the validation of the numerical computations, experimental investigations are made to measure flow field and performance data. In the flow field measurements mainly Particle Image Velocimetry (PIV) is used.

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