



SES Process Technology Group

A Division of Stress Engineering Services, Inc.

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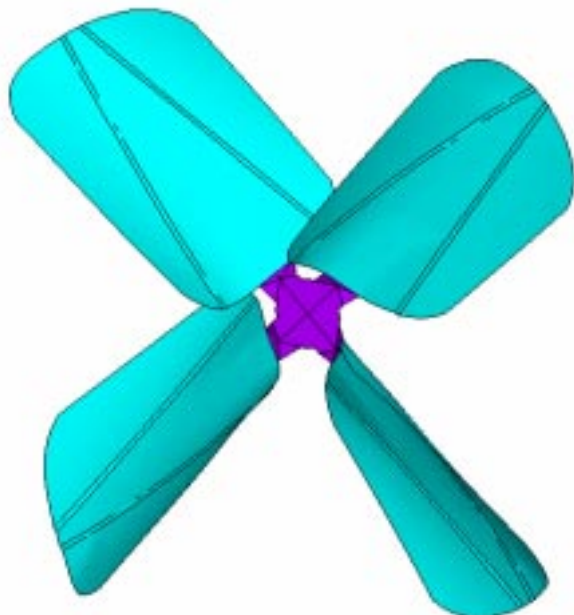
Finite Element Analysis Speeds Structural Design of Fan Blades and Hubs



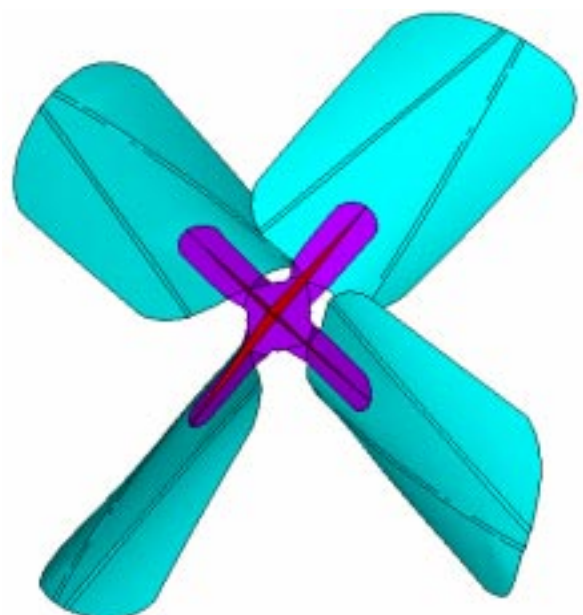
Box Fan Analyzed Using Finite Element Analysis (FEA)



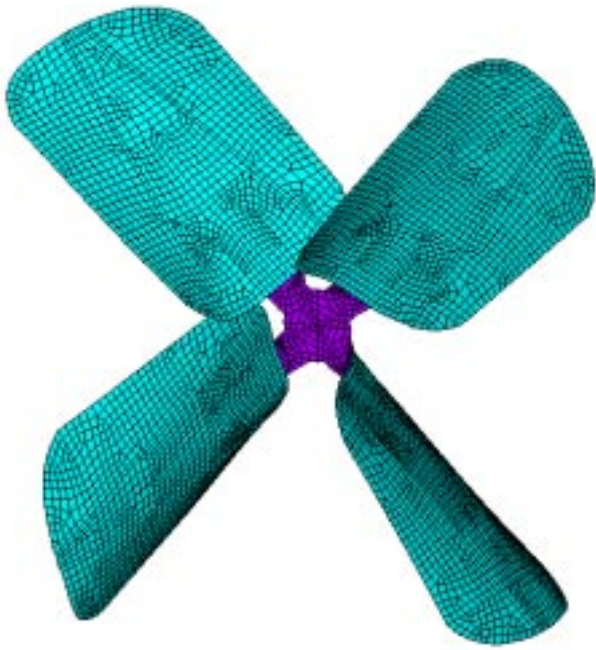
Detail of Blade



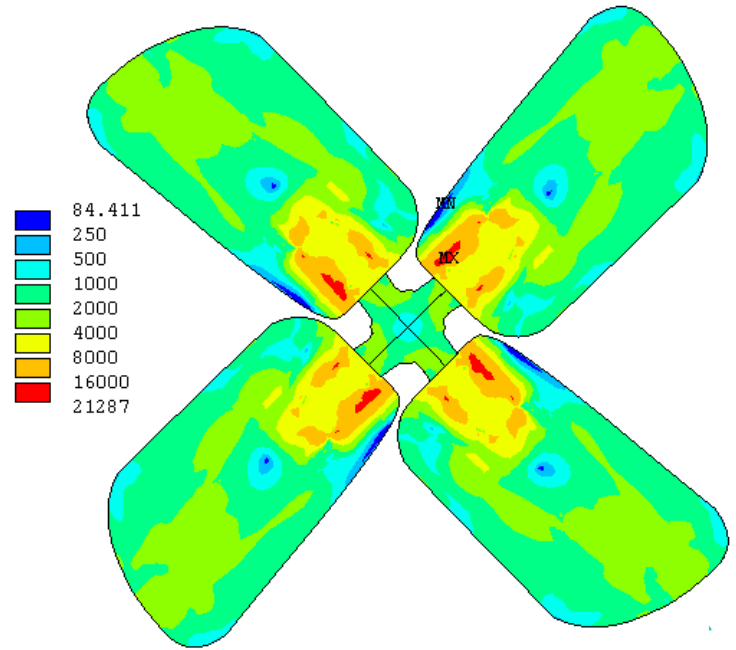
Surface Model of Blade and Hub



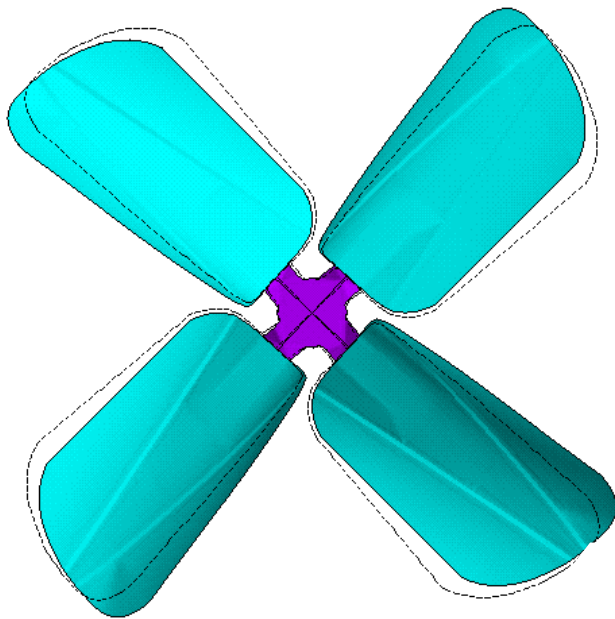
Back View of Blade and Hub Model



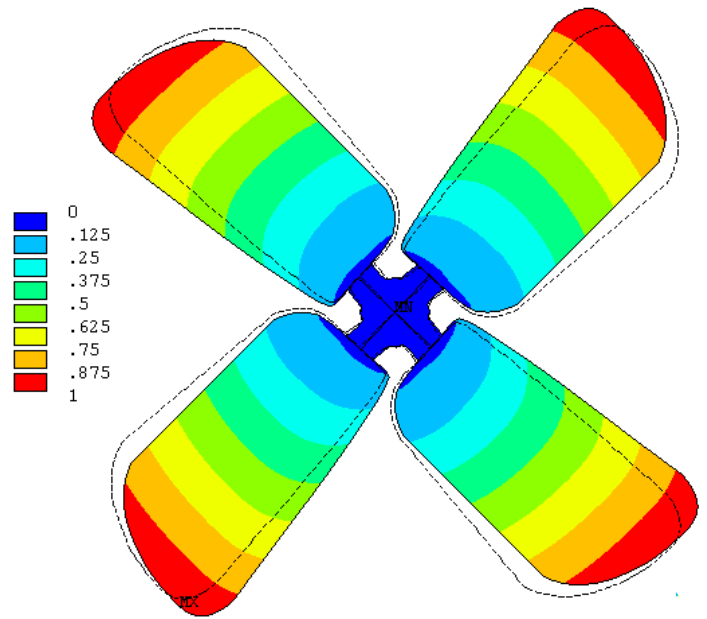
Finite Element Computational Mesh



Stresses in psi for Fan Running at 425 RPM



Displacements at First Mode of Vibration - Torsion at 30.2 Hz



Tangential Displacements at First Vibrational Mode - Tip Displacement = 1

**For further information on how the
SES Process Technology Group can help you solve your
fan engineering problems, contact the office nearest you**

...or visit our web sites www.processinnovation.com & www.stress.com