

# Why are the generator blades not equally spaced

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As expected, the blade spacing strongly affects the tonal noise part of the spectrum, which is mainly of aeroacoustic origin; in axial-flow fans, it also affects the low-frequency broadband part ...

“Unevenly spaced fan is developed to reduce the tones. The fan blades are spaced such that the center of mass is placed exactly on the fan axis to minimize fan vibration.

A condition called chatter occurs when a turbine with two blades attempts to yaw. This condition occurs because the moment of inertia of a blade is significantly greater when it is horizontal than when it is ...

As a result of the 120-degree spacing between the blades, rotor dynamics are more benign than for the 180- and 360-degree spacing associated with two- and one-bladed rotor systems, respectively.

Research has proven that if the rotor blades are spaced unevenly in the circumferential direction, the frequency features of flow patterns can be modified and the tonal noise level can thus be reduced[3][4].

In a graphical representation, this would show three sine waves that are evenly spaced. The sum of these three phases creates a smoother and more continuous power supply, which is why ...

In four blade wind turbines, When two of the blades line up with the tower (and the other two are parallel to the ground) there is a disparity in loading on the blades perpendicular to the ...

Generator sets must be properly installed to ensure that cooling air is not restricted or artificially heated by nearby heat sources or from recirculation. Fortunately, installation influences can be simulated ...

In four blade wind turbines, When two of the blades line up with ...

Taper-- Generally, wind generator blades are wider at the base and narrower at the tips, since the area swept

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by the inner portion of blades is relatively small.

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