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BladeWind Turbine Use. Tangier [7] Describes The
Airfoil As A 21% Thick, Laminar-flow Airfoil With Low
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Instrumentation And A Third Was Constructed With
124 Pressure Taps Installed Inside The Blade.
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Aerodynamic Impact Of Leading Edge Surface
Treatments On ...Figure 1: Erosion Of Wind Turbine
Leading Edge [4] Eroded Blades Can Have A Severe
Impact On Wind Turbine Performance. For Instance,
The S809 Airfoil Was Designed To Be Insensitive To
Roughness Due To Its Intended Application On Wind
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And Jonathan Poggie‡ U.S. Air Force Research Laboratory, Wright-Patterson Air Force Base, Ohio, 45433-7512
DOI: 10.2514/1.39032 Apr 1th, 2024.

Aerodynamic Characteristics Of A NACA 4412 Airfoil
NACA 4412 Airfoil 4 Digit Code Used To Describe Airfoil Shapes
1st Digit - Maximum Camber In Percent Chord
2nd Digit - Location Of Maximum Camber Along Chord Line (from Leading Edge) In Tenths Of Chord
3rd And 4th Digits - Maximum Thickness In Percent Chord
NACA 4412 With A Chord Of 6" Max Camber: 0.24" (4% X 6")
Location Of Max Camber: 2.4" Aft Of Leading Edge (0.4 X 6")
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Passive Control Of Aerodynamic Load In Wind Turbine Blades
Been Discussing About Passive Control Techniques. The Implementation Of This Kind Of Aeroelastic Re-sponse Does Not Bring Additional Maintenance Or Weight, Unlike Active Control, Because There Are No Additional Devices Or Complementary Structures, And Is Very Useful Either To Reduce Fatigue Loads Or Op-timize Energy Output.
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