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Transient response of the flexible blade of horizontal-axis wind turbines in wind gusts and rapid yaw changes

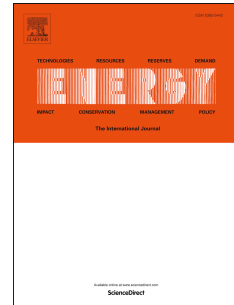
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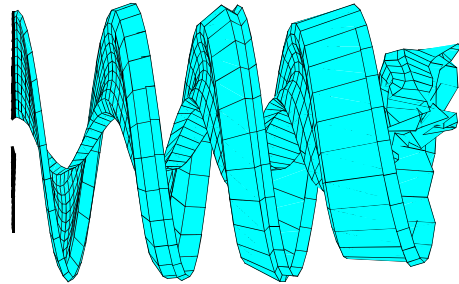
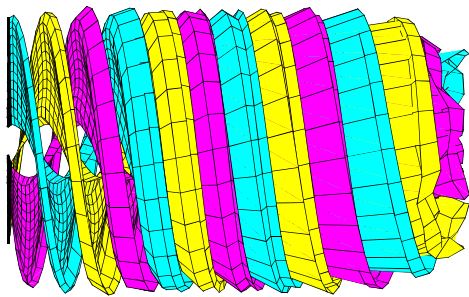
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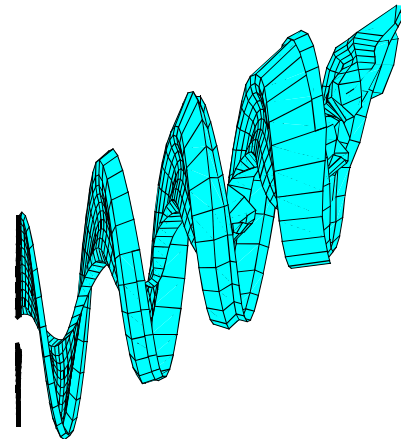
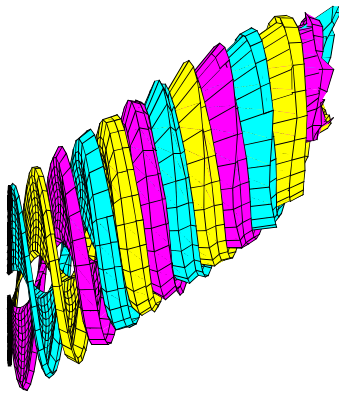
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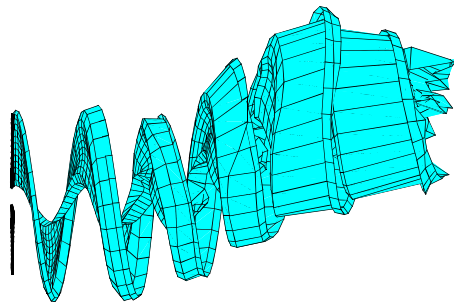
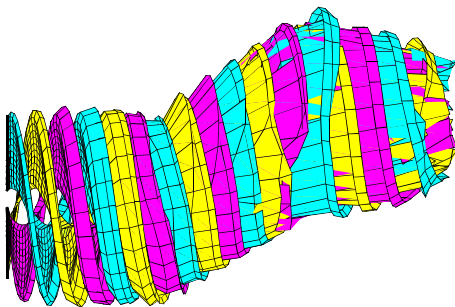
Graphical Abstract



(a) Without yaw



(b) Const. yaw angle



(c) Variable yaw angle

Wake structure behind the rotor at different yawed conditions from three blade (Left)

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