Nonlinear blade element-momentum analysis of Betz-Goldstein rotors

• We analyze Betz-Goldstein (BG) rotors for maximum power at any tip speed ratio and number of blades.
• We prove that Glauert's incorporation of tip loss in the blade torque and thrust equation are correct.
• We show the nonlinear angular momentum terms can contribute 12% of the total torque.

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