

Outline

Part I: Blade Design Methods and Issues

- Survey of steady-state aero-performance codes and methods
- Blade design tradeoffs and issues (aerodynamics, structures, cost, and noise)
- Criteria for airfoil selection and NREL airfoils
- Post-stall models

Part II: PROPID

- Direct vs inverse design
- Inverse design capabilities of PROPID
- Blade design examples and working session

Part III: Airfoil Data

- PROPID airfoil data files and treatment of the data
- Computational vs experimental results
- Methods used to simulate leading-edge roughness

Part IV: Blade Geometry Optimization

- Approaches to optimization
- Overview of PROPGA

Part V: Summary

Back to PROPID Resources.