European Conference on Turbomachinery Fluid Dynamics and Thermodynamics
CATEGORIES

1. Modelling of physical phenomena

1.1 Transition and turbulence modeling
1.2 Wet steam
1.3 Particulate flows
1.4 Cavitation
1.5 Deposition and erosion
1.6 Real working fluid flows
1.7 Multi phase flow
1.8 Flow in Combustors

2. Compressor aerodynamics

2.1 Axial compressors
2.2 Radial compressors
2.3 Fans
2.4 Design analysis and performance- Compressor
2.5 Numerical calculations-Compressor
2.6 Secondary, tip clearance and leakage flows-Compressor
2.7 Unsteady flows and interactions-Compressor
2.8 Stall and surge
2.9 Aeronautical propeller

3. Turbine aero-thermodynamics

3.1 Axial turbines
3.2 Radial turbines
3.3 Wind turbines
3.4 Design, analysis and performance-Turbine
3.5 Numerical calculations-Turbine
3.6 Secondary, tip clearance and leakage flows-Turbine
3.7 Unsteady flows and blade row interaction-Turbine
3.8 Heat transfer and blade cooling
3.9 Steam turbines
3.10 Combustor Turbine Interaction

4. Diffusers

4.1 Design and performance-Diffuser
4.2 Interactions at diffuser entrance and exit

5. Pumps and hydraulic turbines

5.1 Design, analysis and performance-hydraulic machinery
5.2 Numerical calculations-hydraulic machinery
5.3 Secondary, tip clearance and leakage flows-hydraulic machinery
5.4 Unsteady flows and blade row interaction-hydraulic machinery
5.5 Performance in cavitation and multiphase flow
5.6 Marine Propeller
5.7 Marine Turbine

6. Design and Optimisation

6.1 Application
6.2 Optimisation tools and uncertainty quantification
6.3 Multidisciplinary coupling tools

7. Active and passive flow control

8. Vibration, flutter, aero-elasticity

9. Aero-acoustics, noise generation and reduction

10. Operational experience, performance monitoring, diagnostics, deterioration and residual performance/life prediction

11 Experimental and measuring techniques

11.1 Novel test rigs
11.2 Optical methods
11.3 Pressure/temperature/heat transfer

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