

# 12. ESSENTIAL EQUATIONS OF TURBOMACHINES

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— 1 — Force on blades from fluid stream; — 4 — Discussion about Euler equation; — 7 — Relation between mean aerodynamic velocity and force  $F$ ; — 7 — Force on blade and circulation of velocity; — 8 — Torque, power output; — 9 — Discussion about Euler turbomachinery equation; — 9 — Specific shaft work; — 10 — Discussion about specific shaft work; — 10 — Spiral passages inside turbomachinery; — 12 — Pressure and energy distribution inside turbomachine; — 13 — References; Appendices in Czech

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