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Autore	Chiesa, Innocenzo
Titolo	Vita di Carlo Bascapè : barnabita e vescovo di Novara (1550-1615) / Innocenzo Chiesa
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2. Record Nr.	UNINA9910784362503321
Autore	Dixon S. L (Sydney Lawrence)
Titolo	Fluid mechanics, thermodynamics of turbomachinery [[electronic resource] /] / [by] S. L. Dixon
Pubbl/distr/stampa	Oxford ; ; New York, : Pergamon Press, 1998
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Nota di contenuto	Front Cover; Fluid Mechanics, Thermodynamics of Turbomachinery; Copyright Page; Contents; Preface to the Fifth Edition; Preface to the Fourth Edition; Preface to the Third Edition; Acknowledgements; List of Symbols; Chapter 1. Introduction: Dimensional Analysis: Similitude; Definition of a turbomachine; Units and dimensions; Dimensional analysis and performance laws; Incompressible fluid analysis; Performance characteristics; Variable geometry turbomachines; Specific speed; Cavitation; Compressible gas flow relations; Compressible fluid analysis The inherent unsteadiness of the flow within turbomachinesReferences; Problems; Chapter 2. Basic Thermodynamics, Fluid Mechanics: Definitions of Efficiency; Introduction; The equation of continuity; The first law of thermodynamics-internal energy; The momentum equation-Newton's second law of motion; The second law of thermodynamics-entropy; Definitions of efficiency; Small stage or polytropic efficiency; Nozzle efficiency; Diffusers; References; Problems; Chapter 3. Two-dimensional Cascades; Introduction; Cascade nomenclature; Analysis of cascade forces; Energy losses; Lift and drag Circulation and liftEfficiency of a compressor cascade; Performance of

two-dimensional cascades; The cascade wind tunnel; Cascade test results; Compressor cascade performance; Turbine cascade performance; Compressor cascade correlations; Fan blade design (McKenzie); Turbine cascade correlation (Ainley and Mathieson); Comparison of the profile loss in a cascade and in a turbine stage; Optimum space-chord ratio of turbine blades (Zweifel); References; Problems; Chapter 4. Axial-flow Turbines: Two-dimensional Theory; Introduction; Velocity diagrams of the axial turbine stage; Thermodynamics of the axial turbine stage; Stage losses and efficiency; Soderberg's correlation; Types of axial turbine design; Stage reaction; Diffusion within blade rows; Choice of reaction and effect on efficiency; Design point efficiency of a turbine stage; Maximum total-to-static efficiency of a reversible turbine stage; Stresses in turbine rotor blades; Turbine flow characteristics; Flow characteristics of a multistage turbine; The Wells turbine; Pitch-controlled blades; References; Problems; Chapter 5. Axial-flow Compressors and Fans; Introduction; Two-dimensional analysis of the compressor stage; Velocity diagrams of the compressor stage; Thermodynamics of the compressor stage; Stage loss relationships and efficiency; Reaction ratio; Choice of reaction; Stage loading; Simplified off-design performance; Stage pressure rise; Pressure ratio of a multistage compressor; Estimation of compressor stage efficiency; Stall and surge phenomena in compressors; Control of flow instabilities; Axial-flow ducted fans; Blade element theory; Blade element efficiency; Lift coefficient of a fan aerofoil; References; Problems; Chapter 6. Three-dimensional Flows in Axial Turbomachines

Sommario/riassunto

The new edition will continue to be of use to engineers in industry and technological establishments, especially as brief reviews are included on many important aspects of Turbomachinery, giving pointers towards more advanced sources of information. For readers looking towards the wider reaches of the subject area, very useful additional reading is referenced in the bibliography. The subject of Turbomachinery is in continual review, and while the basics do not change, research can lead to refinements in popular methods, and new data can emerge. This book has applications for professiona
