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Turbine Design: The Effect of Axial Flow Turbine Performance of Parameter Variation

Leslie Fielding, ASME Press, L Fielding

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A reference on both aircraft and industrial turbines, Turbine Design: The Effect on Axial Flow Turbine Performance of Parameter Variation details specific methods for optimization and design. A rotary machinery consultant and design engineer, the author examines how to investigate and fix the initial scantling selections, for input, to analysis, of CFD computer programs. He presents a method of selecting the best compromise turbine design, taking into account a range of parameters, including size, stress and number of stages. Used to design many turbines, FieldingAs method enables a designer to select the best compromise to ensure performance acceptability. The method uses correlations to investigate both the direct and the indirect problems.Contents Include: Basic Turbine Design Selection of Parameters Blade Efficiency and Shaft Efficiency Work Parameter and Flow Coefficient Degree of Reaction Minimum Hub/Tip Ration Minimum Exit Mach Number and Reynolds Number General Parameters Effect of Stress on Turbine Efficiency State Calculations Introduction Profile loss and Optimum Space/Chord Ratio Secondary and Leakage Loss Coefficients Three Dimensional Considerations State Thermodynamic Calculations Thermodynamics and Blade Shapes Relating Thermodynamic Calculations to Physical Blade Efflux Angle Prediction from a Blade Row Design Example Design and Test of a Single Stage Turbine Selection of Parameters Detailed Thermodynamic Design Comparison of Design Prediction and Test Results Index & References.

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