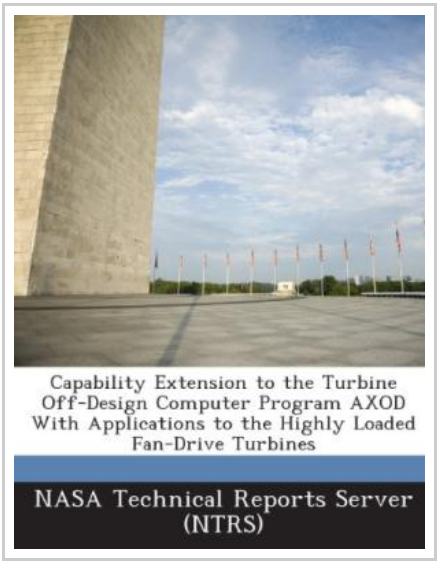

Capability Extension to the Turbine Off-Design Computer Program Axod with Applications to the Highly Loaded Fan-Drive Turbines

By -

BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 26 pages. Dimensions: 9.7in. x 7.4in. x 0.1in.The axial flow turbine off-design computer program AXOD has been upgraded to include the outlet guide vane (OGV) into its acceptable turbine configurations. The mathematical bases and the techniques used for the code implementation are described and discussed in lengths in this paper. This extended capability is verified and validated with two cases of highly loaded fan-drive turbines, designed and tested in the VSTOL Program of NASA. The first case is a 4 12-stage turbine with an average stage loading factor of 4. 66, designed by Pratt and Whitney Aircraft. The second case is a 3 12-stage turbine with an average loading factor of 4. 0, designed in-house by the NASA Lewis Research Center (now the NASA Glenn Research Center). Both cases were experimentally tested in the turbine facility located at the Glenn Research Center. The processes conducted in these studies are described in detail in this paper, and the results in comparison with the experimental data are presented and discussed. The comparisons between the AXOD results and the experimental data are in excellent agreement. This item ships from La Vergne,TN....

Reviews

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