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Numerical study of the rotor geometry effect on a mixed flow turbine performance

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The performance of tow mixed flow turbocharger turbine rotors is numerically investigated, the tow rotors differ mainly in their inlet angle geometry, one has a constant blade angle (rotor A) and the other has a nominal constant incidence (rotor B). This study performed with the ICEM and CFX softwares of ANSYS, presents a numerical performance prediction of tow mixed flow for a wide range of rotational speeds and pressure ratios. The influence of inlet blade angle on the turbine performances is also investigated.

Biography

Omar Zine Khelloufi received his PhD from University of Science and Technology of Oran-Mohamed-Boudiaf. He has been a member of Laboratory of Applied Mechanics.

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