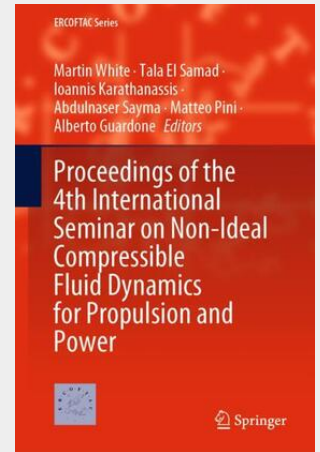


Proceedings of the 4th International Seminar on Non-Ideal Compressible Fluid Dynamics for Propulsion and Power

This book collects the main contributions from the 4th edition of the NICFD conference, organized by the Special Interest Group on Non-Ideal Compressible Fluid Dynamics (SIG-49). It provides some of the latest research findings in the field of NICFD, relevant to a number of engineering applications related to the conversion of renewable and waste energy sources, like, e.g., organic Rankine cycles, super-critical CO₂ cycle power plants, combustors operating with supercritical fluids, and heat pumps. The book reports on research encompassing theoretical, computational, and experimental aspects of the gas-dynamics of non-ideal reactive and non-reactive flows and their impact for the design of internal-flow components (turbomachinery, heat exchangers, combustors). All chapters address challenges related to characterizing the behaviour of non-ideal fluids, where state-of-the-art models are used to predict the thermo-physical properties of both pure and multi-phase fluids.

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