Simulation of a Gas Turbine Combustor Test Rig using a Reactor Network Approach with Detailed Chemistry

By Oleg Bosyi

GRIN Verlag Gmbh Sep 2014, 2014. Taschenbuch. Book Condition: Neu. 211x139x5 mm. Neuware - Master's Thesis from the year 2014 in the subject Engineering - Power Engineering, grade: 1.0, Brandenburg Technical University Cottbus, language: English, comment: Simulation eines Prüfstands einer Gasturbinenbrennkammer mit einem Reaktor Netzwerk und detaillierter Chemie, abstract: Use of gas turbines as one of the most effective power generation technologies has ecological concerns caused by polluting combustion products. To reduce emissions different fuel compositions are being constantly investigated and gas turbines are developed by means of experiments or less expensive numerical simulations. Combustion processes can be modeled in computational fluid dynamics (CFD) with a good accuracy but it is time consuming and rather complicated in case of detailed chemistry. To overcome this issue a processing of CFD solution can be applied for a further building of equivalent chemical reactor networks (CRN) that allow to reduce calculation times and take minor species into account. The aim of this work is to choose a proper technique of CRN set-up and apply it for engineering tasks with the software tool 'LOGEsoft ReactorNetwork'. The first part of the thesis is devoted to investigation of existing CRN approaches, CFD processing instruments and testing...

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