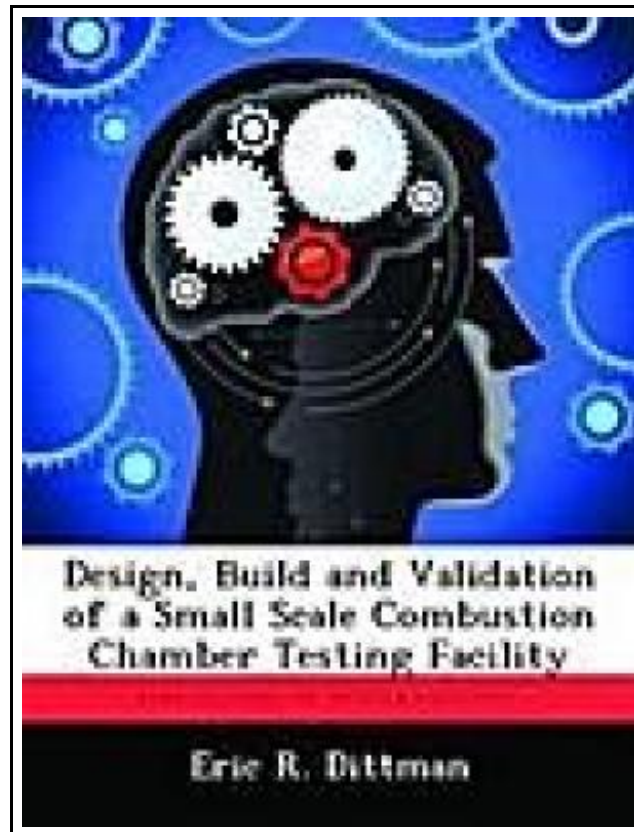


Design, Build and Validation of a Small Scale Combustion Chamber Testing Facility



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Reviews




*This publication is definitely not simple to begin on studying but quite fun to see. It really is full of knowledge and wisdom I am just effortlessly can get a satisfaction of studying a created pdf.
(Alfreda Bradtke)*

DESIGN, BUILD AND VALIDATION OF A SMALL SCALE COMBUSTION CHAMBER TESTING FACILITY



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Biblioscholar Okt 2012, 2012. Taschenbuch. Book Condition: Neu. 246x189x8 mm. This item is printed on demand - Print on Demand Neuware - This study investigated the design parameters necessary for the construction and use of a testing facility built to evaluate advanced combustor designs for future gas turbine engines. User inputs were acquired by interview and by evaluating facilities at other organizations and used in the decisions made in the accuracy, capability, safety and flexibility of pieces of machinery and how different systems were to interact. All systems and measurements are designed to be compliant with the guidance set forth in SAE ARP 1256. Safeguard systems were also designed into the facility to maintain a safe work environment for the user. These safeguards include automatic fuel shut-offs, heater shut-offs, and general system power downs. While the system is designed to evaluate the testing of a planar 2-D section of the UCC, the labs now have the capability to analyze many systems. The facility, now built, has the ability to supply up to 260 SCFM of air in two legs with 200 SCFM and 60 SCFM splits. These air lines can be independently heated up to 500 - F. The testing area can flow both liquid and gaseous fuels, with a maximum flow rate of 340 mL/min for liquid fuels and 200 SLPM for gaseous fuels. The air flow and fuel flows combine to allow equivalence ratios up to 4 for JP-8 fuels. The facility is also capable of testing systems requiring combustion analysis following SAE ARP 1256 for testing of emissions, a system that requires heated air or fuel, a system that requires an exhaust system to pull gasses out of the testing area, or a system that needs open flame. These additional capabilities allow further research to be conducted on...

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