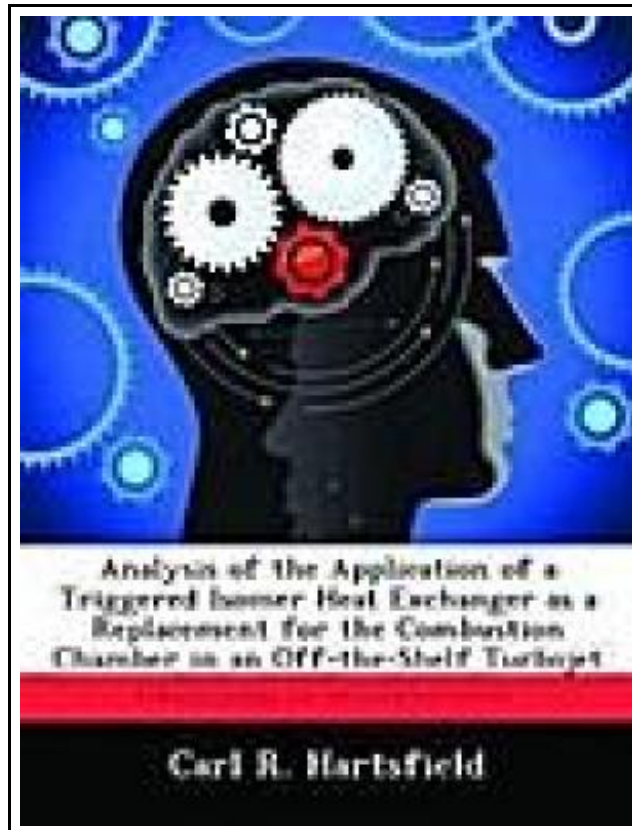


Analysis of the Application of a Triggered Isomer Heat Exchanger as a Replacement for the Combustion Chamber in an Off-the-Shelf Turbojet



Filesize: 8.88 MB

Reviews

Here is the best publication i have got go through until now. It is actually writter in simple phrases and never hard to understand. I realized this publication from my dad and i suggested this ebook to find out.

(Lorena White)

ANALYSIS OF THE APPLICATION OF A TRIGGERED ISOMER HEAT EXCHANGER AS A REPLACEMENT FOR THE COMBUSTION CHAMBER IN AN OFF-THE-SHELF TURBOJET



To read **Analysis of the Application of a Triggered Isomer Heat Exchanger as a Replacement for the Combustion Chamber in an Off-the-Shelf Turbojet** PDF, you should follow the button under and save the file or have access to other information that are in conjunction with ANALYSIS OF THE APPLICATION OF A TRIGGERED ISOMER HEAT EXCHANGER AS A REPLACEMENT FOR THE COMBUSTION CHAMBER IN AN OFF-THE-SHELF TURBOJET book.

Biblioscholar Okt 2012, 2012. Taschenbuch. Book Condition: Neu. 246x189x6 mm. This item is printed on demand - Print on Demand Neuware - The objective of this research was to determine the feasibility of using a nuclear reaction heat source, such as the electromagnetically triggered decay of an isomer, in a solid-state heat exchanger to power an off-the-shelf gas turbine engine. Two primary performance measures examined were the total pressure decrement across the heat exchanger and the total temperature capability leaving the heat exchanger. The analysis included the use of a commercial software package, ANSYS// 5.6.1, running on a 700 MHz Pentium III PC. This package includes the FLOTRAN computational fluid dynamics program, a finite element program based on unstructured meshes, with multiple discretization schemes, turbulence models, and advection options. Boundary conditions on velocity, pressure, temperature, heat flux, and heat generation are available and were used in this research. Three basic geometries of heat exchanger were explored in this research: Concentric annular tubes, radial trapezoidal fins, and a dual, concentric annulus of rectangular fins. These were selected due to the simplicity of geometry and potential ease of manufacture. In addition, because the flow through all of these geometries could be reasonably approximated by a series of two dimensional flow fields, run times were on the order of 1 day, a significant reduction from 3-D flow calculations. All three configurations produced sufficient heat transfer. Pressure ratios across the heat exchangers varied in the range from 94.5970 to 97.5%. Turbine inlet temperatures varied from 986 K to 1150 K (1775 R to 2070 R). In the J-57 engine, these conditions will produce a static, sea-level thrust of approximately 37,000 N (8,300 lb.) to 47,000 N (10,600 lb.), compared to 46,000 N (10,300 lb.) for the conventional engine. 94 pp. Englisch.



[Read Analysis of the Application of a Triggered Isomer Heat Exchanger as a Replacement for the Combustion Chamber in an Off-the-Shelf Turbojet Online](#)



[Download PDF Analysis of the Application of a Triggered Isomer Heat Exchanger as a Replacement for the Combustion Chamber in an Off-the-Shelf Turbojet](#)

Other PDFs



[PDF] Psychologisches Testverfahren

Access the link listed below to download and read "Psychologisches Testverfahren" PDF file.

[Download PDF »](#)



[PDF] Programming in D

Access the link listed below to download and read "Programming in D" PDF file.

[Download PDF »](#)



[PDF] Kindle Fire Tips And Tricks How To Unlock The True Power Inside Your Kindle Fire

Access the link listed below to download and read "Kindle Fire Tips And Tricks How To Unlock The True Power Inside Your Kindle Fire" PDF file.

[Download PDF »](#)



[PDF] Studyguide for Social Studies for the Preschool/Primary Child by Carol Seefeldt ISBN: 9780137152841

Access the link listed below to download and read "Studyguide for Social Studies for the Preschool/Primary Child by Carol Seefeldt ISBN: 9780137152841" PDF file.

[Download PDF »](#)



[PDF] Adobe Indesign CS/Cs2 Breakthroughs

Access the link listed below to download and read "Adobe Indesign CS/Cs2 Breakthroughs" PDF file.

[Download PDF »](#)



[PDF] By the Fire Volume 1

Access the link listed below to download and read "By the Fire Volume 1" PDF file.

[Download PDF »](#)