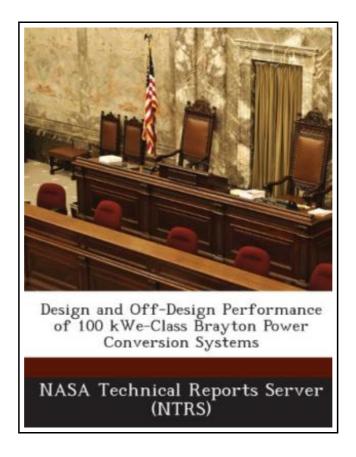
Design and Off-Design Performance of 100 Kwe-Class Brayton Power Conversion Systems



Filesize: 7.84 MB

Reviews

Comprehensive guide for ebook fanatics. It really is rally fascinating throgh reading time. Its been designed in an exceptionally simple way and is particularly only following i finished reading this ebook through which really changed me, modify the way in my opinion. (Frederique McClure)

DESIGN AND OFF-DESIGN PERFORMANCE OF 100 KWE-CLASS BRAYTON POWER CONVERSION SYSTEMS



Bibliogov, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****. The NASA Glenn Research Center in-house computer model Closed Cycle Engine Program (CCEP) was used to explore the design trade space and off-design performance characteristics of 100 kWe-class recuperated Closed Brayton Cycle (CBC) power conversion systems. Input variables for a potential design point included the number of operating units (1, 2, 4), cycle peak pressure (0.5, 1, 2 MPa), and turbo-alternator shaft speed (30, 45, 60 kRPM). The design point analysis assumed a fixed turbine inlet temperature (1150 K), compressor inlet temperature (400 K), helium-xenon working-fluid molecular weight (40 g/mol), compressor pressure ratio (2.0), recuperator effectiveness (0.95), and a Sodium-Potassium (NaK) pumped-loop radiator. The design point options were compared on the basis of thermal input power, radiator area, and mass. For a nominal design point with defined Brayton components and radiator area, off-design cases were examined by reducing turbine inlet temperature (as low as 900 K), reducing shaft speed (as low as 50 percent of nominal), and circulating a percentage (up to 20 percent) of the compressor exit flow back to the gas cooler. The off-design examination sought approaches to reduce thermal input power without freezing the radiator.

- Read Design and Off-Design Performance of 100 Kwe-Class Brayton Power Conversion Systems Online
- Download PDF Design and Off-Design Performance of 100 Kwe-Class Brayton Power Conversion Systems

See Also



Weebies Family Halloween Night English Language: English Language British Full Colour

Createspace, United States, 2014. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****. Children s Weebies Family Halloween Night Book 20 starts to teach Pre-School and...

Download Document »



Becoming Barenaked: Leaving a Six Figure Career, Selling All of Our Crap, Pulling the Kids Out of School, and Buying an RV We Hit the Road in Search Our Own American Dream. Redefining What It Meant to Be a Family in America.

Createspace, United States, 2015. Paperback. Book Condition: New. 258 x 208 mm. Language: English . Brand New Book ***** Print on Demand *****. This isn t porn. Everyone always asks and some of our family thinks...

Download Document »



50 Fill-In Math Word Problems: Algebra: Engaging Story Problems for Students to Read, Fill-In, Solve, and Sharpen Their Math Skills

Scholastic Teaching Resources. Paperback / softback. Book Condition: new. BRAND NEW, 50 Fill-In Math Word Problems: Algebra: Engaging Story Problems for Students to Read, Fill-In, Solve, and Sharpen Their Math Skills, Bob Krech, Joan Novelli,...

Download Document »



Adobe Photoshop 7.0 - Design Professional

Book Condition: Brand New. Book Condition: Brand New.

Download Document »



Using Adobe InDesign CS, Photoshop CS, and Illustrator CS - Design Professional

Book Condition: Brand New. Book Condition: Brand New.

Download Document »