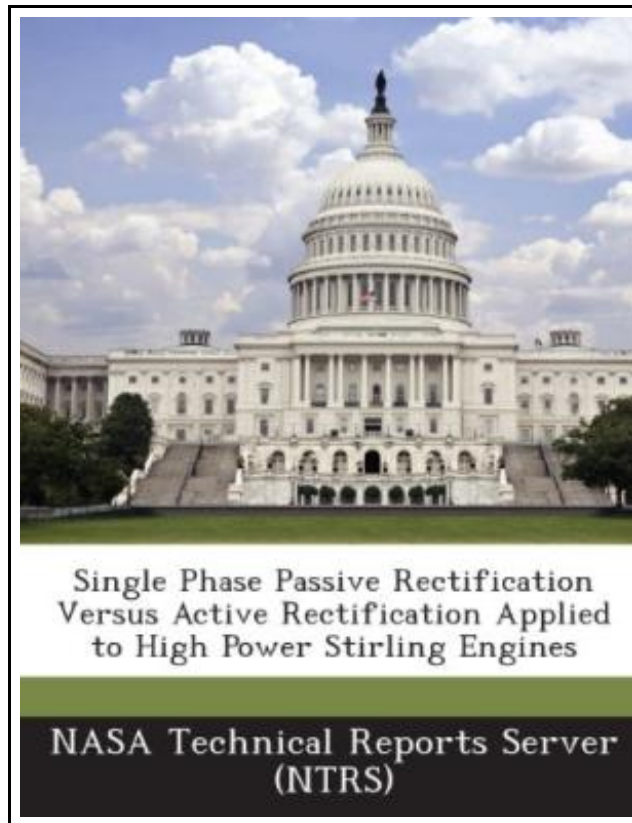


Single Phase Passive Rectification Versus Active Rectification Applied to High Power Stirling Engines



Filesize: 9.37 MB

Reviews

It is one of my personal favorite books. It is written in easy terms and never hard to understand. It has been designed in an exceedingly easy way and it is only after I finished reading this publication by which in fact changed me, change the way I think.

(Lucinda Stiedemann)

SINGLE PHASE PASSIVE RECTIFICATION VERSUS ACTIVE RECTIFICATION APPLIED TO HIGH POWER STIRLING ENGINES

[DOWNLOAD](#)

To read **Single Phase Passive Rectification Versus Active Rectification Applied to High Power Stirling Engines** PDF, you should access the link under and save the file or have access to additional information which might be related to SINGLE PHASE PASSIVE RECTIFICATION VERSUS ACTIVE RECTIFICATION APPLIED TO HIGH POWER STIRLING ENGINES ebook.

BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 22 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. Stirling engine converters are being considered as potential candidates for high power energy conversion systems required by future NASA explorations missions. These types of engines typically contain two major moving parts, the displacer and the piston, in which a linear alternator is attached to the piston to produce a single phase sinusoidal waveform at a specific electric frequency. Since all Stirling engines perform at low electrical frequencies (less or equal to 100 Hz), space explorations missions that will employ these engines will be required to use DC power management and distribution (PMAD) system instead of an AC PMAD system to save on space and weight. Therefore, to supply such DC power an AC to DC converter is connected to the Stirling engine. There are two types of AC to DC converters that can be employed, a passive full bridge diode rectifier and an active switching full bridge rectifier. Due to the inherent line inductance of the Stirling Engine-Linear Alternator (SE-LA), their sinusoidal voltage and current will be phase shifted producing a power factor below 1. In order to keep power the factor close to unity, both AC to DC converters topologies will implement power factor correction. This paper discusses these power factor correction methods as well as their impact on overall mass for exploration applications. Simulation results on both AC to DC converters topologies with power factor correction as a function of output power and SE-LA line inductance impedance are presented and compared. This item ships from La Vergne, TN. Paperback.

 [Read Single Phase Passive Rectification Versus Active Rectification Applied to High Power Stirling Engines Online](#)

 [Download PDF Single Phase Passive Rectification Versus Active Rectification Applied to High Power Stirling Engines](#)

 [Download ePub Single Phase Passive Rectification Versus Active Rectification Applied to High Power Stirling Engines](#)

See Also



[PDF] Animalogy: Animal Analogies

Follow the hyperlink beneath to get "Animalogy: Animal Analogies" document.

[Download ePub »](#)



[PDF] The Whale Tells His Side of the Story Hey God, Ive Got Some Guy Named Jonah in My Stomach and I Think Im Gonna Throw Up

Follow the hyperlink beneath to get "The Whale Tells His Side of the Story Hey God, Ive Got Some Guy Named Jonah in My Stomach and I Think Im Gonna Throw Up" document.

[Download ePub »](#)



[PDF] God Loves You. Chester Blue

Follow the hyperlink beneath to get "God Loves You. Chester Blue" document.

[Download ePub »](#)



[PDF] Good Night, Zombie Scary Tales

Follow the hyperlink beneath to get "Good Night, Zombie Scary Tales" document.

[Download ePub »](#)



[PDF] Yearbook Volume 15

Follow the hyperlink beneath to get "Yearbook Volume 15" document.

[Download ePub »](#)



[PDF] DK Readers Robin Hood Level 4 Proficient Readers

Follow the hyperlink beneath to get "DK Readers Robin Hood Level 4 Proficient Readers" document.

[Download ePub »](#)



[PDF] Marm Lisa

Access the link beneath to download "Marm Lisa" PDF file.

[Read Book »](#)



[PDF] The Poems and Prose of Ernest Dowson

Access the link beneath to download "The Poems and Prose of Ernest Dowson" PDF file.

[Read Book »](#)



[PDF] A Sea Symphony - Study Score

Access the link beneath to download "A Sea Symphony - Study Score" PDF file.

[Read Book »](#)



[PDF] The Secret Life of Trees DK READERS

Access the link beneath to download "The Secret Life of Trees DK READERS" PDF file.

[Read Book »](#)



[PDF] DK Readers The Story of Muhammad Ali Level 4 Proficient Readers

Access the link beneath to download "DK Readers The Story of Muhammad Ali Level 4 Proficient Readers" PDF file.

[Read Book »](#)



[PDF] Angels Among Us: 52 Humorous and Inspirational Short Stories: Lifes Outtakes - Year 7

Access the link beneath to download "Angels Among Us: 52 Humorous and Inspirational Short Stories: Lifes Outtakes - Year 7" PDF file.

[Read Book »](#)