

Design of Alpha Stirling Engine in Conjunction with Solar Concentrator

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Abstract – This paper provides an design approach and thermodynamic analysis of an solar stirling model. Out of the three Configurations viz. Alpha,Beta and Gamma an Alpha configuration was Chosen because of its ease of fabrication. Parabolic solar concentrator is used to provide Heat to the Engine. The main objective was to determine how much work can be extracted from a 49cc Stirling Engine. Further the Effect of regenerator effectiveness on Stirling cycle efficiency. Variation of expansion volume, Compression volume and total volume is also calculated with respect to crank angle variation.

Key Words: Solar Stirling model, Alpha Configuration, Stirling Engine, Parabolic Solar Concentrator, regenerator effectiveness, crank angle, expansion volume, compression volume.

1. INTRODUCTION

Stirling engine is a mechanical device working theoretically on the Stirling cycle, in which compressible fluids, such as air, hydrogen, helium, nitrogen or even vapors, are used as working fluids. The Stirling engine offers possibility for having high efficiency engine with less exhaust emissions in comparison with the internal combustion engine. The earlier Stirling engines were huge and inefficient. However, over a period of time, a number of new Stirling engine models have been developed to improve the deficiencies.

The modern Stirling engine is more efficient than the early engines and can use any high temperature heat source. The Stirling engine is an external combustion engine. Therefore, most sources of heat can power it, including combustion of any combustible material, field waste, rice husk or the like, biomass methane and solar energy. In principle, the Stirling engine is simple in design and construction, and can be operated easily.

Direct solar-powered Stirling engines may be of great interest to countries where solar energy is available in unlimited quantity. To use direct solar energy, a solar concentrator and absorber must be integrated with the engine system.

1.1 Configuration of Stirling Engine

There are mainly three configurations of stirling engine namely, Alpha, Beta and Gamma.

- In the alpha-configuration a displacer is not used. Two pistons, called the hot and cold pistons, are used on either side of the heater, regenerator, and cooler. These pistons move uniformly in the same direction to provide constant-volume heating or cooling processes of the working fluid. When all the working fluid has been transferred into one cylinder, one piston will be fixed and the other piston moves to expand or compress the working fluid. The expansion work is done by the hot piston while the compression work is done by the cold piston.
- In the beta-configuration, a displacer and a power piston are incorporated in the same cylinder. The displacer moves working fluid between the hot space and the cold space of the cylinder through the heater, regenerator, and cooler. The power piston, located at the cold space of the cylinder, compresses the working fluid when the working fluid is in the cold space and expands the working fluid when the working fluid is moved into the hot space.
- The gamma-configuration uses separated cylinders for the displacer and the power pistons, with the power cylinder connected to the displacer cylinder. The displacer moves working fluid between the hot space and the cold space of the displacer cylinder through the heater, regenerator, and cooler. In this configuration, the power piston both compresses and expands the working fluid. The gamma-configuration with double-acting piston arrangement has theoretically the highest possible mechanical efficiency. This configuration also shows good self-pressurization.

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Table of Contents Design Of Alpha Stirling Engine In Conjunction With Solar

1. Understanding the eBook Design Of Alpha Stirling Engine In Conjunction With Solar
 - The Rise of Digital Reading Design Of Alpha Stirling Engine In Conjunction With Solar
 - Advantages of eBooks Over Traditional Books
2. Identifying Design Of Alpha Stirling Engine In Conjunction With Solar
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Design Of Alpha Stirling Engine In Conjunction With Solar
 - User-Friendly Interface
4. Exploring eBook Recommendations from Design Of Alpha Stirling Engine In Conjunction With Solar

- Personalized Recommendations
 - Design Of Alpha Stirling Engine In Conjunction With Solar User Reviews and Ratings
 - Design Of Alpha Stirling Engine In Conjunction With Solar and Bestseller Lists
5. Accessing Design Of Alpha Stirling Engine In Conjunction With Solar Free and Paid eBooks
 - Design Of Alpha Stirling Engine In Conjunction With Solar Public Domain eBooks
 - Design Of Alpha Stirling Engine In Conjunction With Solar eBook Subscription Services
 - Design Of Alpha Stirling Engine In Conjunction With Solar Budget-Friendly Options
 6. Navigating Design Of Alpha Stirling Engine In Conjunction With Solar eBook Formats
 - ePub, PDF, MOBI, and More
 - Design Of Alpha Stirling Engine In Conjunction With Solar Compatibility with Devices
 - Design Of Alpha Stirling Engine In Conjunction With Solar Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Design Of Alpha Stirling Engine In Conjunction With Solar
 - Highlighting and Note-Taking Design Of Alpha Stirling Engine In Conjunction With Solar
 - Interactive Elements Design Of Alpha Stirling Engine In Conjunction With Solar
 8. Staying Engaged with Design Of Alpha Stirling Engine In Conjunction With Solar
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Design Of Alpha Stirling Engine In Conjunction With Solar
 9. Balancing eBooks and Physical Books Design Of Alpha Stirling Engine In Conjunction With Solar
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Design Of Alpha Stirling Engine In Conjunction With Solar
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Design Of Alpha Stirling Engine In Conjunction With Solar
 - Setting Reading Goals Design Of Alpha Stirling Engine In Conjunction With Solar
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Design Of Alpha Stirling Engine In Conjunction With Solar

- Fact-Checking eBook Content of Design Of Alpha Stirling Engine In Conjunction With Solar
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
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