

Development and Magnetic Analysis of Stirling Converter Assembly Linear Alternators

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Infinia Corporation is working with NASA Glenn Research Center to evolve the Infinia Technology Demonstration Converter into a lower mass, higher efficiency design. As part of the effort, the linear alternator has been re-designed and analyzed using a 3-D finite element analysis (FEA) software package. The linear alternator is the most massive component of the Stirling converter assembly and offers the highest potential for mass reduction and corresponding gains in power density. The 3-D MAXWELL software package was applied to determine the demagnetization margin for permanent magnets and to map the detailed magnetic field of the laminations to maximize the use of lamination iron, which is not provided by the empirical, in-house design code. Initial evaluation shows that substantial weight reduction can be achieved with a compact, moving-magnet linear alternator design. The improved linear alternators employ more compact copper coils and stator/mover iron and higher operation frequency to achieve significant overall weight reduction. This paper presents some of the analysis results and discusses areas for future improvement.

Nomenclature

<i>FPSE</i>	=	Free-Piston Stirling Engine
<i>CHP</i>	=	Combined Heat and Power
<i>GRC</i>	=	Glenn Research Center
<i>SCA</i>	=	Stirling Converter Assembly
<i>FEA</i>	=	Finite Element Analysis
<i>MTI</i>	=	Mechanical Technology Incorporated
<i>CTCP</i>	=	Component Test Power Converter
<i>SBIR</i>	=	Small Business Innovative Research

I. Introduction

Recently Infinia, supported through a NASA Glenn Research Center (GRC) task order contract, undertook a design study to reduce Stirling Converter Assembly (SCA) mass. Particular attention was paid to the converter assembly and the linear alternator, which constitutes 70% of the overall SCA mass. Several new, low-mass alternator configurations were designed and evaluated, from which a smaller, lighter, moving-magnet configuration was chosen as a promising upgrade over the Infinia legacy, moving-iron linear alternator. Other analyses of the general linear alternator design have identified significant potential mass savings through optimization of magnetic flux distribution, improved topologies, and coil/lamination usage. This paper provides some details regarding the new linear alternator designs, as well as results of analyses performed using 3-D MAXWELL.

II. Advanced Low-Mass Alternator

Moving-iron alternators, such as those used in legacy SCA systems, contribute significantly to overall mass. Reducing the overall stator diameter will be a key focus of the new design, considering that mass and volume both scale with the square of the diameter. Figure 1 provides an illustration of the current Infinia moving-iron linear

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Table of Contents Development And Magnetic Analysis Of Stirling Convertor

1. Understanding the eBook Development And Magnetic Analysis Of Stirling Convertor
 - The Rise of Digital Reading Development And Magnetic Analysis Of Stirling Convertor
 - Advantages of eBooks Over Traditional Books
2. Identifying Development And Magnetic Analysis Of Stirling Convertor
 - 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 Development And Magnetic Analysis Of Stirling Convertor
 - User-Friendly Interface
4. Exploring eBook Recommendations from Development And Magnetic Analysis Of Stirling Convertor
 - Personalized Recommendations
 - Development And Magnetic Analysis Of Stirling Convertor User Reviews and Ratings
 - Development And Magnetic Analysis Of Stirling Convertor and Bestseller Lists

5. Accessing Development And Magnetic Analysis Of Stirling Convertor Free and Paid eBooks
 - Development And Magnetic Analysis Of Stirling Convertor Public Domain eBooks
 - Development And Magnetic Analysis Of Stirling Convertor eBook Subscription Services
 - Development And Magnetic Analysis Of Stirling Convertor Budget-Friendly Options
6. Navigating Development And Magnetic Analysis Of Stirling Convertor eBook Formats
 - ePub, PDF, MOBI, and More
 - Development And Magnetic Analysis Of Stirling Convertor Compatibility with Devices
 - Development And Magnetic Analysis Of Stirling Convertor Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Development And Magnetic Analysis Of Stirling Convertor
 - Highlighting and Note-Taking Development And Magnetic Analysis Of Stirling Convertor
 - Interactive Elements Development And Magnetic Analysis Of Stirling Convertor
8. Staying Engaged with Development And Magnetic Analysis Of Stirling Convertor
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Development And Magnetic Analysis Of Stirling Convertor
9. Balancing eBooks and Physical Books Development And Magnetic Analysis Of Stirling Convertor
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Development And Magnetic Analysis Of Stirling Convertor
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Development And Magnetic Analysis Of Stirling Convertor
 - Setting Reading Goals Development And Magnetic Analysis Of Stirling Convertor
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Development And Magnetic Analysis Of Stirling Convertor
 - Fact-Checking eBook Content of Development And Magnetic Analysis Of Stirling Convertor
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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