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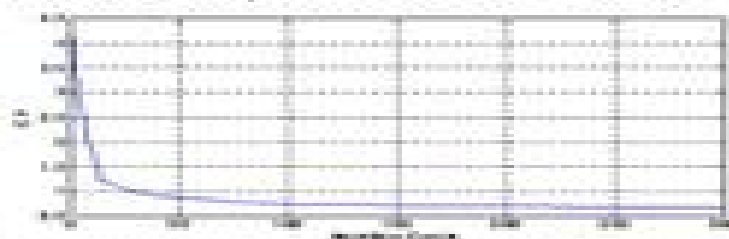


Figure 4. Convergence curve for standard PSO in case of non-uniformly excited CCAA (flat top 50, Cross 50)



Figure 5. Convergence curve for PSOCTPSA in case of non-uniformly excited CCAA (flat top 50, Cross 50)

V. CONCLUSION

This paper illustrates how to model the optimal design of non-uniformly excited CCAAs with optimal radial and non-isotropic elements for maximum SLL reduction using Standard PSO and PSOCTPSA. Computational results reveal that the optimal design of non-uniformly excited CCAA offers a considerable SLL reduction with respect to the corresponding uniformly excited and 0-0.2 non-element spacing CCAA. The main contribution of the paper is threefold: (i) All CCAA designs having central element feeding yield much more reductions in SLL as compared to the same not having central element feeding, (ii) The PSOCTPSA technique outperforms significantly as compared to standard PSO in terms of solution optimality, (iii) The CCAA designs having $N_x=4$, $N_y=6$, $N_z=8$ elements along with central element feeding and non-isotropic elements gives the grand minimum SLL (-46.4 dB) as compared to all other designs sets as determined by PSOCTPSA, which may be thus the grand optimal design set among all the three-ring designs.

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Table of Contents New Trends In Particle Theory 85 Proc

1. Understanding the eBook New Trends In Particle Theory 85 Proc
 - The Rise of Digital Reading New Trends In Particle Theory 85 Proc
 - Advantages of eBooks Over Traditional Books
2. Identifying New Trends In Particle Theory 85 Proc
 - 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 New Trends In Particle Theory 85 Proc
 - User-Friendly Interface
4. Exploring eBook Recommendations from New Trends In Particle Theory 85 Proc
 - Personalized Recommendations
 - New Trends In Particle Theory 85 Proc User Reviews and Ratings
 - New Trends In Particle Theory 85 Proc and Bestseller Lists

5. Accessing New Trends In Particle Theory 85 Proc Free and Paid eBooks
 - New Trends In Particle Theory 85 Proc Public Domain eBooks
 - New Trends In Particle Theory 85 Proc eBook Subscription Services
 - New Trends In Particle Theory 85 Proc Budget-Friendly Options
6. Navigating New Trends In Particle Theory 85 Proc eBook Formats
 - ePub, PDF, MOBI, and More
 - New Trends In Particle Theory 85 Proc Compatibility with Devices
 - New Trends In Particle Theory 85 Proc Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of New Trends In Particle Theory 85 Proc
 - Highlighting and Note-Taking New Trends In Particle Theory 85 Proc
 - Interactive Elements New Trends In Particle Theory 85 Proc
8. Staying Engaged with New Trends In Particle Theory 85 Proc
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers New Trends In Particle Theory 85 Proc
9. Balancing eBooks and Physical Books New Trends In Particle Theory 85 Proc
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection New Trends In Particle Theory 85 Proc
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine New Trends In Particle Theory 85 Proc
 - Setting Reading Goals New Trends In Particle Theory 85 Proc
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of New Trends In Particle Theory 85 Proc
 - Fact-Checking eBook Content of New Trends In Particle Theory 85 Proc
 - 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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