



ZTP Thermal & Power

Comparison of Energy-Saving Molded Tapered Type and Wireless Performance





Comparison of Energy-Saving Molded Tapered Type and Wireless Pe

Multidisciplinary Optimization for Weight Saving in a Variable Tapered

: This paper is a follow-up to earlier work on applying multidisciplinary numerical optimization to develop a morphing variable span of a tapered wing (MVSTW) to reduce its weight by using composite

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A critical review of electromagnetic coil assembly design and

Compares coil geometry, efficiency, and power transfer limitations. Highlights advances in coil design with metamaterials and algorithms. Offers insights into WPT coil design, guiding

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Micromachined octa-port high self isolation asymmetric tapered feed

Octa-port MIMO antenna with dual-band characteristics is presented. The offset-tapered feed with three etched circular-slots is presented on the top surface of the dielectric with a permittivity

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Performance Comparison of Coil Geometries in Self-Resonant

The geometry of the coil significantly influences the performance of the WPT system. This paper thoroughly examines and compares four prominent coil geometries: circular, square, hexagonal, and

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Comparative Analysis of Coil Designs for Maximizing Wireless Power



In this study, key parameters, including energy transfer efficiency, bandwidth, and transmission distance, are evaluated to determine the optimal coil configuration for maximizing WPT system

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Multidisciplinary Optimization for Weight Saving in a

As a first step, a problem-specific optimization approach is described for specifying the weight-saving structure of wing components using composite

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Performance characteristics of the Dual Exponentially Tapered Slot

investigated how different outer edge taper parameters affected the far-field performance, which shows that dual exponentially tapered slot antenna (DE TSA) has excellent

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Optimized Coupling Coil Geometry for High Wireless

Among them, the design of IPT coils is crucial for optimizing both power efficiency and performance in WPT systems. Building on recent

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Substrate Integrated Waveguide Based High Gain Planar

The 60 GHz band has the potential to provide high speed wireless communication. Substrate integrated waveguide (SIW) fed millimeter wave high gain antipodal linear tapered slot

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Vol. 3, Issue 10, October 2014 Performance Evaluation of Wireless



type and compare the performance changes during using various shapes of coils for transmission and receiving. The results are verified with an experimental prototype

KEYWORDS: Wireless power

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Comparison of optimal designs of steel portal frames including

Here, the effects of wind loading, asymmetry and deflection limits are investigated. It was found that wind load has a significant effect on the optimisation compared to just the gravity load

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Energy-efficient wireless communications

To address the energy efficiency challenge, writing in IEEE Journal on Selected Areas in Communications, Özlem Tugfe Demir et al. integrate cell-free massive MIMO technology into the

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Amplification characteristics in active tapered segmented cladding

A kind of tapered segmented cladding fiber (T-SCF) with large mode area (LMA) is proposed, and the mode and amplification characteristics of T-SCFs with concave, linear, and convex tapered

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Design of a large-mode-area tapered fiber amplifier for amplification

We design a W-type large-mode-area erbium doped tapered fiber with effective mode area varying from $1770 \mu\text{m}^2$ to $840 \mu\text{m}^2$ with tolerance ± 0.0005 in refractive indices of different layers of

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Design and optimization of circular and rectangular couplers



for

Different circular and rectangular coupler types have been compared for all four parameter variations with horizontal deviation in the X and Y-directions. The Results show that the

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Comparison of modular and nonmodular tapered fluted titanium

However, which type of femoral stem is superior remains controversial. The purpose of this study was to assess the clinical and radiographic outcomes of modular and nonmodular tapered

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Energy-Efficient Wireless Communications: From Energy Modeling to

This provides an important framework for analyzing energy-efficient communications for



different wireless systems ranging from cellular networks to wireless internet of things.

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(PDF) Compactness and performance enhancement

Although many approaches proposed for TSAs' compactness and performance enhancement, this work for the first time presents a comprehensive

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Compactness and performance enhancement techniques of ultra

This comparison seeks to help both researchers and RF designers grasp the fundamentals of establishing effective steps for Vivaldi antenna design with high resilience by combining multiple

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(PDF) Compactness and performance enhancement

Higher performance, lower cost, and compact size antennas are important in today's wireless communication system where everything is connected.

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Multidisciplinary Optimization for Weight Saving in a

This paper is a follow-up to earlier work on applying multidisciplinary numerical optimization to develop a morphing variable span of a tapered wing

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Realization of a Tapered Slot Array as Both Decoupling and Radiating

As a combination of microwave Multiple-Input Multiple-Output (MIMO) antenna system and mm-wave antenna array, an integrated design is proposed to provide multi-band,



high port

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Performance characteristics of the dual exponentially tapered slot

Performance characteristics of the dual exponentially tapered slot antenna (DE TSA) for wireless communications applications The dual exponentially tapered slot antenna (DE TSA) is a low-profile

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Design, modeling, and experimental verification of reversed

This paper proposes a novel multimodal piezoelectric energy harvester by taking advantage of multimodal techniques consisting of a reversed exponentially tapered beam (Primary beam) and six

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Modified Tapered Slot-line Antennas for Special Applicatio

Abstract- Tapered slot-line antenna (TSA) is a well known printed end-fire antenna with traveling-wave feature. In order to further improve its performances and extend its functions, several techniques with

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