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Advising Theses

Yenikaya S., Design, implementation and optimization of substrate integrated waveguide filters to be used in microwave frequencies, Doctorate, K.GÜVENLİ(Student), 2022

Yenikaya S., Elektrikli araçlar için grafen tabanlı elektromanyetik ekran modellenmesi, Doctorate, S.GÜLER(Student), 2022

Yenikaya S., PARÇACIK SÜRÜ OPTİMİZASYONU (PSO) KULLANILARAK ELEKTRİK SOLİTON ÜRETEÇ TASARIMI, ANALİZİ VE GERÇEKLEMESİ, Postgraduate, A.AKSOY(Student), 2022

YENİKAYA S., Analysis and determination of design optimization steps of an industrial microwave oven, Postgraduate, S.Ali(Student), 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A review of substrate integrated waveguide (SIW) filter architecture and filter design technologies
Yüzey tümleşik dalga kılavuzu (YTD) filtre mimarisi incelemesi ve filtre tasarım teknolojileri**
Güvenli K., YENİKAYA S., Seçmen M.
Journal of the Faculty of Engineering and Architecture of Gazi University, vol.39, no.2, pp.1333-1349, 2024 (SCI-Expanded)
- II. **A Parallel Connected Hybrid Microstrip-Substrate Integrated Waveguide Bandstop Filter**
Güvenli K., Yenikaya S., Seçmen M.
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- III. **Soliton wave parameter estimation with the help of artificial neural network by using the experimental data carried out on the nonlinear transmission line**
AKSOY A., YENİKAYA S.
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- IV. **Improving the shielding effectiveness of a rectangular enclosure by optimizing aperture and coating with graphene sheet**
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- V. **Analysis, design, and actual fabrication of a hybrid microstrip-SIW bandpass filter based on cascaded hardware integration at X-band**
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- VI. **Analysis of shielding effectiveness by optimizing aperture dimensions of a rectangular enclosure**

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- VII. Analysing the shielding effectiveness of graphene sheet coated rectangular enclosure**
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- VIII. Design optimization using dielectric slab for efficient microwave heating**
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- IX. Keeping the Vehicle on the Road - A Survey on On-Road Lane Detection Systems**
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- X. Hybrid MoM/FEM Modeling of Loaded Enclosure with Aperture in EMC Problems**
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- IV. SOLITON WAVE GENERATION ON NONLINEAR TRANSMISSION LINES USING A PARTICLE SWARM OPTIMIZATION (PSO) ALGORITHM**
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- VII. Numerical and Experimental Analysis of the Heating Performance of a Microwave Applicator Loaded with Sludge Material**
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- VIII. Microwave Drying of Automotive Industry Paint Sludge**
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- X. **An Efficient Hybrid MoM/FEM Method for Analyzing the Enclosures With Apertures**
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- III. **Güvenli K., Yenikaya S., Seçmen M.**
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- V. **Parameter estimation for nonlinear transmission line design using the artificial neural network model**
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- VI. **RF Soliton Wave Design on Nonlinear Transmission Lines**
 Aksoy A., Yenikaya S.
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- XIV. **Mikrodalga Işınlarıyla Kurutulan Arıtma Çamurlarında Patojenlerin Yeniden Büyümesinin İncelenmesi**
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- XV. **Arıtma Çamurlarının Mikrodalga Teknolojisiyle Kurutulması**
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- XX. **Effects of Sample's Dielectric Property on the Performance of Microwave Heating**
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- XXIII. **Endüstriyel Malzemelerin Nemlilik Oranının Mikrodalga Tekniğiyle Tayini**
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