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Publons / Web Of Science ResearcherID: ABB-8996-2020

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Eğitim Bilgileri

Doktora, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Türkiye 1981 - 1986

Yüksek Lisans, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Türkiye 1979 - 1981

Lisans, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Türkiye 1975 - 1979

Yaptığı Tezler

Doktora, A new finite element method for electromagnetic boundary value problems in combined interior and exterior regions, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 1986

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Araştırma Alanları

Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Prof. Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 1998 - Devam Ediyor

Yönetilen Tezler

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- III. **Analytic and numeric perturbation techniques approach for the solution of electromagnetic wave problems Elektromanyetik dalga yayılım ve saçılım problemlerine analitik ve sayısal pertürbasyon teknikleri ile çözüm yaklaşımı**
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- IV. **Nanoscale optical parametric amplification through super-nonlinearity induction**
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- VII. **A novel beamforming emulating photonic nanojets for wireless relay networks**
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- VIII. **PETOOOL v2.0: Parabolic Equation Toolbox with evaporation duct models and real environment data**
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- IX. **Enhancement of optical parametric amplification in microresonators via gain medium parameter selection and mean cavity wall reflectivity adjustment**
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- X. **High-Fidelity Harmonic Generation in Optical Micro-Resonators Using BFGS Algorithm**
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- XI. **A novel CEM technique for modeling electromagnetic scattering from metasurfaces**
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- XIV. **A Domain Decomposition Finite-Element Method for Modeling Electromagnetic Scattering From Rough Sea Surfaces With Emphasis on Near-Forward Scattering**
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- XXI. **Excessive Memory Usage of the ELLPACK Sparse Matrix Storage Scheme throughout the Finite Element Computations**
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- XXVI. **Comments on "Propagation Modeling Over Irregular Terrain by the Improved Two-Way Parabolic Equation Method"**
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- XXVIII. **Cartesian Grid Mapper: Transformation Media for Modeling Arbitrary Curved Boundaries With Cartesian Grids**
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- XXIX. **PERFORMANCE COMPARISON OF VARIOUS HEXAHEDRAL ELEMENT QUALITY METRICS VIA PARAMETRIC DISTORTION OF AN IDEAL ELEMENT**
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- XXX. **Monte Carlo analysis of ridged waveguides with transformation media**
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- XXXI. **Software metamaterials: Transformation media based multi-scale techniques for computational electromagnetics**
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- XXXVI. **PETOOOL: MATLAB-based one-way and two-way split-step parabolic equation tool for radiowave propagation over variable terrain**
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- XXXIX. **Form Invariance of Maxwell's Equations: The Pathway to Novel Metamaterial Specifications for Electromagnetic Reshaping**
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- XLI. **Iterative leap-field domain decomposition method: a domain decomposition finite element algorithm for 3D electromagnetic boundary value problems**
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- XLVII. **A particle swarm optimization approach for hexahedral mesh smoothing**
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- XLVIII. **Parallelized Characteristic Basis Finite Element Method (CBFEM-MPI)-A non-iterative domain decomposition algorithm for electromagnetic scattering problems**
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- LI. **Efficient finite element solution of low-frequency scattering problems via anisotropic metamaterial layers**
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