

HOMAYOON ORAIZI

I- HIGHER EDUCATION

1. High School Diploma (Mathematics), (June 1960), Adab High School, Isfahan, Iran
- ____2. Physics Department, 2 semesters, (1960-1961), Tehran University, Tehran, Iran.
3. B.E.E., Bachelor of Electrical Engineering, (13 semester program), (June 1967), American University of Beirut, Beirut, Lebanon.
4. M. Sc. (EE), (June 1969), Syracuse University, Syracuse, NY, USA.
5. Ph.D. (EE), Electromagnetics Engineering, (Sep 1973), Syracuse University, Syracuse, NY, USA.
6. Certificate of Proficiency in English, (1967), The University of Michigan, Michigan, USA.
7. Lower Certificate in English, (1961), University of Cambridge, UK.

II- AWARDS

1. Invited Professor, Academy of Sciences of Iran, Electrical Engineering Group
2. Exemplary Nation-Wide University Professor in Iran, 2006.
3. A Distinguished National Research Personality, 2012, Iranian Association of Electrical and Electronics Engineers (IAEEE).
4. Iranology Foundation, listed as an Elite Electrical Engineer
5. FEMA, Fellow Electromagnetic Academy, MIT, USA.
6. Antenna Theory and Design (Translation), Book of the Year 1996 in Iran
7. Named in the Book Who's Who in the World in the year 1999 and later, Marquis, USA.
8. The Best Research Project in the year 2002 at Iran University of Science and Technology.
9. The Best Researcher in the year 2007, in the Department of Electrical Engineering, Iran
10. Life Senior Member, IEEE.
11. JSPS Fellow (Japan Society for the Promotion of Science), Tsukuba University, Tsukuba, Ibaraki, Japan, July-Aug 2003.
12. Visiting Scholar at Tsukuba University, Tsukuba, Ibaraki, Japan, July-Dec 2004
13. Has served as Reviewer of IEEE Transactions on Antennas and Propagation, Microwave Theory and Technique, Automatic Control, Iranian Conferences on

Electrical Engineering, International Symposium on Telecommunication, various engineering journals in Iran such as Iranian Journal of Science and Technology, IUST International Journal of Engineering Science, etc.

14. Member of the technical committee of several conferences, such as ICEE, EuMC, MMS, ISI, etc.
15. More than 50 years of Professional experience in electrical engineering after Ph.D. graduation since 1973
16. Member of the editorial board, Journal of Communication Engineering (Shahed University), Journal of Southern Communication Engineering (Bushehr Azad University), WET, IJEEE
17. Recipient of M. Hakkak award for Research in Communications Engineering in 2016 by IEEE Iran Section
18. Top 2% scientists ranked by Stanford University and Elsevier
19. Highly ranked scholars of 0.05 % on the subject of impedance matching by Scholar GPS

III- ADMINISTRATIVE EXPERIENCE

1. Director, Electromagnetic Engineering Research Laboratory, School of Electrical Engineering, Iran University of Science and Technology.
2. Professor of Electrical Engineering, 1999-present, Iran University of Science and Technology (IUST)
3. Associate Professor of Electrical Engineering, (1995-1999), IUST
4. Assistant Professor of Electrical Engineering, (1985-1995), IUST
5. Editor-In-Chief and member of the Editorial Board of the Iranian Journal of Electrical and Electronic Engineering (IJEEE), during 2006-2008.
6. Head, Communications Group, Dept of Elect Eng, (1995-1997), IUST
7. Technical Specialist, (1984-1985), Defense Industries Complex, Isfahan, Iran.
8. Technical Advisor and Deputy Manager of Communications Division, (1981-1984), Iran Electronics Industries (IEI), Shiraz, Iran,
9. Manager, (1976-1981), Systems Engineering Department, Comm. Div., IEI

10. Supervisor, (1975-1976), Systems Eng. Dept, Comm. Div., IEI
11. Systems Engineer, (1974-1975), Systems Eng. Dept., Comm. Div., IEI
12. Division Engineering Projects and Universities Coordinator, (1975-1979), Comm. Div., IEI, Shiraz, Iran
13. Assistant Professor, (1973-1974), Department of Electrical Engineering, Khajeh Nassir Toosi University of Technology, Tehran, Iran
14. Research Assistant, (1968-1973), Department of Electrical and Computer Engineering, Syracuse University, Syracuse, NY, USA
15. Research Assistant, Syracuse University Research Corporation, SURC, (Fall 1969), Syracuse, NY, USA
16. Student Trainee, (Summer 1965), Lister Company, Dursley, UK, and Electric Construction Company, Wolverhampton, UK
17. Professor of Electromagnetics Engineering courses teaching at various campuses of Islamic Azad University in the cities of Tehran and Bushehr, Iran
18. Consultant to communication systems Industries in Iran
19. One of the Founders of Fars Lamp Manufacturing Industries, Shiraz, Iran, founded in the year, 1982.

IV- PRESENTED UNIVERSITY COURSES

1. Electromagnetics (undergraduate)
2. Fields and Waves (undergraduate)
3. Antennas 1 (undergraduate)
4. Antennas 2 (graduate)
5. Microwaves 1 (undergraduate)
6. Microwaves 2 (graduate)
7. Theory of Electromagnetics 1 (graduate)
9. Scattering of Electromagnetic Waves (graduate)
10. Propagation of Radio Waves (graduate)

11. Electric Circuits 1 (undergraduate)

12. Communication Circuits Laboratory (undergraduate)

V- RESEARCH AND INDUSTRIAL PROJECTS

Stepped-Impedance Low-Pass Filters

Propagation of Radio Waves in Indoor and Outdoor Environments

Antennas in Multilayered Media

Analysis and Design of Frequency Selective Surfaces (FSS)

Application of Metamaterials

Synthesis of Antenna Arrays and Phase Arrays

Analysis and Synthesis of Waveguide Slot Antenna Arrays

Scattering Problems of Objects made of Common Materials and Metamaterials

Radar Cross-Section of Various Objects

Miniaturized and Small Antennas

Fractal Antennas and Arrays

Microwave Power Dividers

Microwave Filters

Microwave Phase Shifters

Active Antennas

Effects of Radio Waves and Radiation on Human Bodies

Impedance Matching

Dielectric Resonators

Microwave Couplers and dividers

Leaky Wave Antennas

VI- RESEARCH LABORATORY

Electromagnetic Engineering Research Laboratory

VII- PAPERS WRITTEN IN ENGLISH LANGUAGE

{221E} P Hosseini, H Oraizi, Investigation of losses on directivity improvement in the graphene reflectarray design. Scientific Reports, 2026

{220E} H Mohammadi, AS Nooramin, H Oraizi, A Wideband Holographic Array with Azimuth and Elevation Beam Steering for 5G/6G Applications. arXiv preprint arXiv:2507.11697, 2025

{219E} M Ashrafian, H Oraizi, A Amini, Dispersion Analysis of Wide-Scanning Reflector-Based Leaky Wave Holograms by Adiabatic Floquet-Wave Expansion Method.

IEEE Transactions on Antennas and Propagation 73 (7), 4927-4932, 2025

{218E} A Golmohammadi, FH Kashani, SH Sedighy, H Oraizi, MA Chaychi Zadeh, Wideband Nonuniform Tapered Antipodal Vivaldi Antenna With Improved Radiation Pattern.

Microwave and Optical Technology Letters 67 (3), e70173, 2025

{217E} H Ahmadi, K Zafari, M Pasdari-Kia, N Razmjooei, K Arik, Z Ahmadi, ..., Ultra-wideband unidirectional pseudospin-polarized waveguide with dual boundary conditions.

Scientific Reports 15 (1), 6717, 2025

{216E} Z Ahmadi, H Saghaei, M Pasdari-Kia, H Ahmadi, N Razmjooei, ..., Self-reactive impedance surfaces for enhanced quasi-line wave propagation in the terahertz spectrum.

Scientific Reports 15 (1), 6033, 2025

{215E} A Amini, A Moshiri, M Ahmadi, H Oraizi, V Nayyeri. Flexible dispersion engineering in metasurface-based leaky-wave antennas: Leveraging spatio-temporally modulated impedance surfaces. Optics Express 33 (3), 3818-3836, 2025

{214E} K Zafari, H Oraizi, H Ahmadi, Engineering leaky wave antennas: Modulated impedance surfaces and radiative characteristics. IEEE Transactions on Antennas and Propagation 73 (3), 1482-1495, 2025

{213E} P Hosseini, H Oraizi, Fully Controllable Beam-Steering 1-THz Transmitarray Using Graphene–Metal Hybrid Metasurface. IET Microwaves, Antennas & Propagation 19 (1), e70025, 2025

{212E} M Salehi, H Oraizi, Wideband high gain metasurface-based 4T4R MIMO antenna with highly isolated ports for sub-6 GHz 5G applications. Scientific Reports 14 (1), 14448, 2024

{211E} M Shoaee, AS Nooramin, H Oraizi, Antenna Array Arbitrary Pattern Synthesis Using Conditional Generative Adversarial Network. (under submission), 2024

{210E} H Ahmadi, Z Ahmadi, N Razmjooei, M Pasdari-Kia, A Bagheri, H Saghaei, ..., Line-wave waveguide engineering using Hermitian and non-Hermitian metasurfaces. Scientific Reports 14 (1), 5704, 2024

[209 E] A Khajevandi, H Oraizi, Miniaturization of frequency selective surface by 2.5-dimensional meandered split ring cells for application in L-band, Scientific Reports 13 (1), 18737. 2023.

[208 E] H Ahmadi, M Pasdari-Kia, N Razmjooei, Z Ahmadi, K Zafari, K Arik, Quasi-Line Waves in Self-Inductive Impedance Surfaces, Authorea Preprints. 2023.

[207 E] N Omrani, F Ghorbani, S Beyraghi, H Oraizi, H Soleimani, Deep Learning Design of Orbital Angular Momentum Generators by Leaky-wave Holograms, IEEE Antennas and Wireless Propagation Letters. 2023.

[206 E] M Salehi, H Oraizi, Wideband High Gain Metasurface-Based 2* 2 MIMO antenna with Highly Isolated Ports for Sub-6 GHz 5G Applications, arXiv preprint arXiv:2309.07131. 2023.

[205 E] Y Torabi, H Oraizi, A Araghi, M Khalily, Miniaturized V-band circularly polarized leaky-wave antenna with continuous radiation coverage using modified waveguide and metasurface CSRRs, Scientific Reports 13 (1), 10162. 2023.

[204 E] N Omrani, F Ghorbani, S Beyraghi, H Oraizi, H Soleimani, Deep Learning Framework for the Design of Orbital Angular Momentum Generators Enabled by Leaky-wave Holograms, arXiv preprint arXiv:2304.12695. 2023.

[203 E] P Hosseini, H Oraizi, Analysis and design of terahertz reflectarrays based on graphene cell clusters, Scientific Reports 12 (1), 22117. 2022.

[202 E] Y Torabi, G Dadashzadeh, A Lalbakhsh, H Oraizi, Corrigendum to" High-gain and low-profile dielectric-image-line leaky-wave-antenna for wide-angle beam scanning at sub-THz

frequencies"[Opt. Laser Technol. 150 (2022) 107968], Optics Laser Technology 156, 108593. 2022.

[201 E] SJ Hosseini, H Oraizi, Wide-band conversion of donut-shaped pattern to directive one by square-shaped pattern director antenna, International Journal of Microwave and Wireless Technologies 14 (9), 1099-1106. 2022.

[200 E] A Pesarakloo, H Oraizi, Wideband and metal-only linear to circular polarization converter using multi-slot elements, IET Microwaves, Antennas & Propagation 16 (12), 771-779. 2022.

[199 E] A Amini, H Oraizi, Control of orbital angular momentum regimen by modulated metasurface leaky-wave antennas, IEEE Transactions on Antennas and Propagation 70 (11), 10166-10176. 2022.

[198 E] H Oraizi, MJ Siahkari, Optimum Design of Multi-Section Asymmetrical Transdirectional Couplers with Port Impedance Matching up to S Band Frequency, International Journal of Antennas and Propagation 2022

[197 E] A Amini, H Oraizi, M Movahediqomi, MM Moeini, Adiabatic Floquet-Wave Solutions of Temporally Modulated Anisotropic Leaky-Wave Holograms, arXiv preprint. 2022. arXiv:2206.00797

[196 E] Y Torabi, G Dadashzadeh, A Lalbakhsh, H Oraizi, High-gain and low-profile dielectric-image-line leaky-wave-antenna for wide-angle beam scanning at sub-THz frequencies, Optics & Laser Technology 150, 107968. 2022.

[195 E] A Amini, H Oraizi, Temporally modulated one-dimensional leaky-wave holograms Scientific Reports 12 (1), 8488. 2022.

[194 E] A Khajevandi, H Oraizi, Utilizing interdigital and supershape geometries for the design of frequency selective surfaces with high angular and polarization stabilities Scientific Reports 12 (1), 7054. 2022.

[193 E] A Khajevandi, H Oraizi, Design of a circularly polarized microstrip slot antenna using Minkowski fractal by the characteristic mode theory, Electronics Letters 58 (9), 352-355. 2022.

[192 E] M Salehi, H Oraizi, Holographic Transmitarray Antenna with linear Polarization in X band, AEU-International Journal of Electronics and Communications 146, 154115. 2022.

[191 E] A Khajevandi, H Oraizi, Design of frequency selective surface based on Minkowski fractal and interdigital capacitance, Electronics Letters 57 (25), 957-960. 2021.

[190 E] M Alian, H Oraizi, A Ghorbani, A Abdolali, A Novel Reciprocity Based Theory for Extraction of Scattered Field under Plane Wave Incidence from that of Near-field Illumination IETE Journal of Research 67 (6), 913-920. 2021.

[189 E] F Ghorbani, J Shabanpour, S Beyraghi, H Soleimani, H Oraizi, A deep learning approach for inverse design of the metasurface for dual-polarized waves Applied Physics A 127, 1-7. 2021.

[188 E] A Lak, Z Adelpour, H Oraizi, N Parhizgar, Design and SAR assessment of three compact 5G antenna arrays, Scientific reports 11 (1), 21265. 2021

[187 E] A Nikkhah, H Oraizi, Implementation of parasitic DRA elements for improvement of circular polarization, IEEE Antennas and Wireless Propagation Letters 20 (12), 2387-2391. 2021.

[186 E] Y Torabi, G Dadashzadeh, M Hadeie, H Oraizi, A Lalbakhsh, A wide-angle scanning sub-terahertz leaky-wave antenna based on a multilayer dielectric image waveguide, Electronics 10 (17), 2172. 2021

[185 E] H Soleimani, H Oraizi, Plasmonic leaky wave antenna based on modulated radius of cylindrical graphene waveguide, AIP Advances 11 (9). 2021.

[184 E] AM Hakimi, A Keivaan, H Oraizi, A Amini, Wide-scanning circularly polarized reflector-based modulated metasurface antenna enabled by a broadband polarizer, IEEE Transactions on Antennas and Propagation 70 (1), 84-96. 2021.

[183 E] J Shabanpour, M Sedaghat, V Nayyeri, H Oraizi, OM Ramahi, Real-time multi-functional near-infrared wave manipulation with a 3-bit liquid crystal based coding metasurface Optics Express 29 (10), 14525-14535. 2021.

[182 E] J Shabanpour, S Beyraghi, F Ghorbani, H Oraizi, Implementation of conformal digital metasurfaces for THz polarimetric sensing, OSA Continuum 4 (4), 1372-1380. 2021.

[181 E] F Ghorbani, S Beyraghi, J Shabanpour, H Oraizi, H Soleimani, Deep neural network-based automatic metasurface design with a wide frequency range Scientific Reports 11 (1), 7102. 2021.

[180 E] A Amini, H Oraizi, Adiabatic floquet-wave expansion for the analysis of leaky-wave holograms generating polarized vortex beams, Physical Review Applied 15 (3), 034049

- [179 E] H Soleimani, H Oraizi, Programmable terahertz vortex beam reflectarray antenna based on a graphene phoenix unit cell, *Journal of Physics D: Applied Physics* 54 (16), 165302. 2021.
- [178 E] A Lak, Z Adelpour, H Oraizi, N Parhizgar, Three configurations of compact planar multistub microstrip antennas for mmW mobile applications, *International Journal of Antennas and Propagation* 2021, 1-10. 2021.
- [177 E] A Lak, Z Adelpour, H Oraizi, N Parhizgar, Research Article Three Configurations of Compact Planar Multistub Microstrip Antennas for mmW Mobile Applications, 2021
- [176 E] M Abesht, TN Azadi, H Oraizi, Design and Simulation of Array Antenna in Ku Band with High Gain and Very Low Sidelobe Level for Space and Radar Applications, *JOURNAL OF RADAR* 8 (2), 79-88. 2020.
- [175 E] J Shabanpour, S Beyraghi, H Oraizi, Reconfigurable honeycomb metamaterial absorber having incident angular stability, *Scientific Reports* 10 (1), 14920. 2020
- [174 E] H Oraizi, MJ Siahkari, Analysis and design of asymmetrical multi-section directional coupler with input/output impedance matching, *Journal of Iranian Association of Electrical and Electronics Engineers* 17 (3 ...2020.
- [173 E] SJ Hosseini, H Oraizi, TEM-TE₁₁ mode converter antenna like a pelican beak, *IET Microwaves, Antennas & Propagation* 14 (9), 934-942. 2020.
- [172 E] J Shabanpour, H Oraizi, Some useful approximations for calculation of directivities of multibeam power patterns of large planar arrays, *arXiv preprint arXiv:2006.10423*. 2020.
- [171 E] K Zafari, H Oraizi, Surface waveguide and y splitter enabled by complementary impedance surfaces, *Physical Review Applied* 13 (6), 064025. 2020
- [170 E] H Oraizi, H Emamian, Generation of orbital angular momentum modes via holographic leaky-wave metasurfaces, *Scientific reports* 10 (1), 7358. 2020.
- [169 E] H Soleimani, H Oraizi, A novel 2D leaky wave antenna based on complementary graphene patch cell, *Journal of Physics D: Applied Physics* 53 (25), 255301. 2020.
- [168 E] A Parsa, H Oraizi, Synthesis of planar continuous current sources with arbitrary shapes for generation of desired radiation patterns by methods of moments and least squares, *IET Microwaves, Antennas & Propagation* 14 (5), 348-359. 2020
- [167 E] M Alian, H Oraizi, Electromagnetic scattering from an arbitrarily shaped PEC object coated by spherical dielectric material using equivalence principle algorithm, *Engineering Analysis with Boundary Elements* 111, 178-185. 2020.

- [166 E] A Amini, H Oraizi, M Hamedani, A Keivaan, Wide-band polarization control of leaky waves on anisotropic holograms, *Physical Review Applied* 13 (1), 014038. 2020.
- [165 E] M Daneshvar, N Parhizgar, H Oraizi, A new method to reduce electromagnetic interference using signal modeling, *Archives of Electrical Engineering* 69 (4). 2020.
- [164 E] MH Fakheri, A Abdolali, Z Moradinia, H Oraizi, A Keivaan, Bi-functional antenna coating for cloaking and directivity enhancement made of isotropic materials, *Progress In Electromagnetics Research M* 90, 9-18. 2020.
- [163 E] M Hamedani, H Oraizi, A Amini, D Zarifi, AU Zaman, Planar H-plane horn antenna based on groove gap waveguide technology, *IEEE Antennas and Wireless Propagation Letters* 19 (2), 302-306. 2019.
- [162 E] H Oraizi, P Salimi Borujeni, Dual-band BALUN design by The Series Connection of Wilkinson Power Divider and Phase Shifter, *Journal of Iranian Association of Electrical and Electronics Engineers* 16 (4 ...2019.
- [161 P] پارسا، همایون عربی، گستره‌سازی منابع پیوسته جریان صفحه‌ای برای طراحی آرایه صفحه‌ای با استفاده از روش حداقل مربعات تکرار، نشریه مهندسی برق و الکترونیک ایران ۱۶ (۴)، ۹-۱. ۲۰۱۹.
- [160 E] A Asghari, N Azadi-Tinat, H Oraizi, J Ghalibafan, Wideband frequency-reconfigurable antenna for airborne applications, *Wireless Personal Communications* 109, 1529-1540. 2019
- [159 E] A Nikkhah, H Oraizi, Efficient Printed Circuit Band-Gap Cavity-Backed Slot Antenna *IEEE Transactions on Antennas and Propagation* 68 (4), 2550-2556. 2019.
- [158 E] M Daneshvar, N Parhizgar, H Oraizi, The Design and Simulation a Subsystem under Electromagnetic Interference to Enhance the System's Performance, *European Journal of Electrical Engineering and Computer Science* 3 (6). 2019.
- [157 E] H Soleimani, H Oraizi, Sinusoidally modulated leaky wave antenna based on cylindrical graphene waveguide, *JOSA B* 36 (11), 3189-3195. 2019.
- [156 E] M Daneshvar, N Parhizgar, H Oraizi, The Optimization of Ridge Detection Algorithm for Multi-Component Signals, Entered into System in Time-Frequency Domain, *European Journal of Electrical Engineering and Computer Science* 3 (5). 2019.
- [155 E] R Yazdani, M Yousefi, H Aliakbarian, H Oraizi, GAE Vandenbosch, Miniaturized triple-band highly transparent antenna, *IEEE Transactions on Antennas and Propagation* 68 (2), 712-718. 2019.

- [154 E] M Daneshvar, N Parhizgar, H Oraizi, Design and implementation of the subsystem subject to emission of multicomponent high-frequency signals to ensure its reliability, International Journal of Electrical and Computer Engineering 9 (5), 4204. 2019.
- [153 E] H Rajabloo, J Mandali Jr, H Oraizi, Microstrip Gasper-Peano fractal antenna for circular polarization applications (vol 61), MICROWAVE AND OPTICAL TECHNOLOGY LETTERS 61 (10), 2441-2441. 2019.
- [152 E] SS Abdpour, N Azadi-Tinat, H Oraizi, J Ghalibafan, Design of WLAN/WiMAX band notch super-wideband microstrip fractal antennas, International Journal of Microwave and Wireless Technologies 11 (8), 844-850. 2019.
- [151 E] MM Moeini, H Oraizi, A Amini, V Nayyeri, Wide-band beam-scanning by surface wave confinement on leaky wave holograms, Scientific reports 9 (1), 13227. 2019
- [150 E] B Bahreini, H Oraizi, N Noori, P Mousavi, Optimum design of a beam-forming array of S-shaped DRA elements with a superstrate on an SIW feed for 5G mobile systems, IEEE Antennas and Wireless Propagation Letters 18 (7), 1410-1414. 2019
- [149 E] S Khajevandi, H Oraizi, A Amini, M Poordaraee, Design of miniaturised-element FSS based on 2.5-dimensional closed-loop Hilbert fractal, IET Microwaves, Antennas & Propagation 13 (6), 742-747. 2019.
- [148 E] MM Moeini, H Oraizi, A Amini, Collimating cylindrical surface leaky waves for highly improved radiation characteristics of holograms, Physical Review Applied 11 (4), 044006. 2019
- [147 E] H Oraizi, A Amini, A Shakoory, M Karimimehr, Optimum design of double ridge horn antennas with general cross-section, IET Microwaves, Antennas & Propagation 13 (5), 546-553. 2019.
- [146 E] M Hamidkhani, H Malekpoor, H Oraizi, Oscillator Phase-Noise Reduction Using High-Qsc Active Giuseppe Peano Fractal Resonators, IEEE Microwave and Wireless Components Letters 29 (5), 354-356. 2019.
- [145 E] A Bostani, H Oraizi, Analysis and design of radially inhomogeneous tapered dielectric rod antennas, AEU-International Journal of Electronics and Communications 101, 106-113. 2019.
- [144 E] M Alian, H Oraizi, Application of equivalence principle for EM scattering from irregular array of arbitrarily oriented PEC scatterers using both translation and rotation addition theorems, IEEE transactions on antennas and propagation 67 (5), 3256-3267. 2019.

- [143 E] M Daneshvar, N Parhizgar, H Oraizi, A novel method for separability of signal components to estimate radiation from a high-frequency subsystem, *Archives of Electrical Engineering*, 497-510-497-510. 2019.
- [142 E] M Moein Moeini, H Oraizi, A Amini, Collimating cylindrical Surface Leaky Waves for Highly Improved Radiation Characteristics of Holograms, *arXiv e-prints*, arXiv: 1811.06824. 2018.
- [141 E] H Oraizi, A Amini, A Abdolali, AM Karimimehr, Design of wideband leaky-wave antenna using sinusoidally modulated impedance surface based on the holography theory, *IEEE Antennas and Wireless Propagation Letters* 17 (10), 1807-1811. 2018.
- [140 E] B Bahreini, H Oraizi, N Noori, S Fakhte, Design of a circularly polarized parasitic array with slot-coupled DRA with improved gain for the 5G mobile system, *IEEE Antennas and Wireless Propagation Letters* 17 (10), 1802-1806. 2018.
- [139 E] M Alian, H Oraizi, Electromagnetic multiple PEC object scattering using equivalence principle and addition theorem for spherical wave harmonics, *IEEE Transactions on Antennas and Propagation* 66 (11), 6233-6243. 2018.
- [138 E] S Asgari, H Rajabloo, N Granpayeh, H Oraizi, Tunable graphene-based mid-infrared band-pass planar filter and its application, *Chinese Physics B* 27 (8), 084212. 2018
- [137 E] S Khajevandi, H Oraizi, M Poordaraee, Design of planar dual-bandstop FSS using square-loop-enclosing superformula curves, *IEEE antennas and wireless propagation letters* 17 (5), 731-734. 2018.
- [136 E] H Oraizi, M Hamedani, D Zarifi, A Amini, Design of filter-horn antenna based on groove Gap Waveguide technology for V-band application, *IET Digital Library*, 2018.
- [135 E] M Abedian, H Oraizi, SK Abdul Rahim, S Danesh, MR Ramli, Wideband rectangular dielectric resonator antenna for low-profile applications, *IET Microwaves, Antennas & Propagation* 12 (1), 115-119. 2018.
- [134 E] A Keivaan, MH Fakheri, A Abdolali, H Oraizi, Design of coating materials for cloaking and directivity enhancement of cylindrical antennas using transformation optics, *IEEE Antennas and Wireless Propagation Letters* 16, 3122-3125. 2017.
- [133 E] A Bostani, H Oraizi, Analysis and design of tapered uniaxial-anisotropic dielectric rod antennas, *IEEE Transactions on Antennas and Propagation* 65 (11), 5787-5795. 2017.
- [132 E] A Barzgar, H Oraizi, A low profile band pass DGS filter for harmonic suppression, 2017 *Sensors Networks Smart and Emerging Technologies (SENSET)*, 1-4. 2017.

- [131 E] H Oraizi, A Yousefi, Optimum design of a wideband planar N-way fork power divider with arbitrary power division and input-to-output impedance matching, AEU-International Journal of Electronics and Communications 79, 83-93. 2017.
- [130 E] H Oraizi, N Valizade Shahmirzadi, Frequency-and time-domain analysis of a novel UWB reconfigurable microstrip slot antenna with switchable notched bands, IET Microwaves, Antennas & Propagation 11 (8), 1127-1132. 2017.
- [129 E] H Soleimani, H Oraizi, Miniaturization and dual-banding of an elevated slotted patch antenna using the novel dual-reverse-arrow fractal, International Journal of RF and Microwave Computer-Aided Engineering 27 (5 ... 2017.
- [128 E] S Fakhte, H Oraizi, L Matekovits, Gain improvement of rectangular dielectric resonator antenna by engraving grooves on its side walls, IEEE Antennas and Wireless Propagation Letters 16, 2167-2170. 2017.
- [127 E] H Rajabloo, VA Kooshki, H Oraizi, Compact microstrip fractal Koch slot antenna with ELC coupling load for triple band application, AEU-International Journal of Electronics and Communications 73, 144-149. 2017.
- [126 E] H Orazi, H Soleiman, Miniaturisation of UWB triangular slot antenna by the use of DRAF, IET Microwaves, Antennas & Propagation 11 (4), 450-456. 2017.
- [125 E] S Fakhte, H Oraizi, L Matekovits, G Dassano, Cylindrical anisotropic dielectric resonator antenna with improved gain, IEEE Transactions on Antennas and Propagation 65 (3), 1404-1409. 2017.
- [124 E] H Soleimani, H Orazi, Miniaturization of UWB triangular slot antenna by the use of dual-reverse-arrow fractal, IET Microwaves Antennas Propag 11 (4), 450-456. 2017.
- [123 E] H Rajabloo, VA Kooshki, H Oraizi, Communications (AEÜ), 2017
- [122 E] H Oraizi, A Amini, M Karimi Mehr, Design of miniaturised UWB log-periodic end-fire antenna using several fractals with WLAN band-rejection
IET Microwaves, Antennas & Propagation 11 (2), 193-202. 2017.
- [121 E] N Valizade Shahmirzadi, H Oraizi, Frequency-and time-domain analysis of a novel reconfigurable microstrip antenna for UWB applications, Journal of Electromagnetic Waves and Applications 30 (17), 2311-2324. 2016
- [120 E] S Fakhte, H Oraizi, L Matekovits, High gain rectangular dielectric resonator antenna using uniaxial material at fundamental mode, IEEE Transactions on Antennas and propagation 65 (1), 342-347. 2016.

- [119 E] N Valizade Shahmirzadi, H Oraizi, Design of reconfigurable coplanar waveguide-fed planar antenna for multiband multi-input–multi-output applications, *IET Microwaves, Antennas & Propagation* 10 (14), 1591-1597. 2016.
- [118 E] H Oraizi, A Abdolali, M Fallah, Ultra wide band radar cross section reduction of a perfectly electric conductor sphere by the application of multilayer metamaterial coatings, *Journal of Microwaves, Optoelectronics and Electromagnetic Applications* 15. 2016.
- [117 E] S Fakhte, H Oraizi, Compact uniaxial anisotropic dielectric resonator antenna operating at higher order radiating mode, *Electronics Letters* 52 (19), 1579-1580. 2016.
- [116 E] N Azadi-Tinat, H Oraizi, Design of Compact UWB Multilayered Microstrip Filter with Wide Stopband, *International Journal of Electronics and Communication Engineering* 10 .2016.
- [115 E] M Alian, H Oraizi, Electromagnetic Scattering by 2-D PEC Cylinder of General Cross Section Under Illumination, *IEEE Transactions on Antennas and Propagation* 64 (9), 3953-3959. 2016.
- [114 E] S Fakhte, H Oraizi, Derivation of the resonant frequency of rectangular dielectric resonator antenna by the perturbation theory, *The Applied Computational Electromagnetics Society Journal (ACES)*, 894-900. 2016.
- [113 E] S Fakhte, H Oraizi, Analysis and design of rectangular uniaxial and biaxial anisotropic dielectric resonator antennas, *Progress In Electromagnetics Research C* 62, 43-50. 2016.
- [112 E] Y. Torabi, G. Dadashzadeh and H. Oraizi, Miniaturized sharp band-pass filter based on complementary electric-LC resonator, *Applied Physics A* (2016) 122:273, DOI 10.1007/s00339-016-9787-2
- [111 E] M. Sharafi Masouleh, A. Kargar Behbahani and H. Oraizi, Optimum design of the array of circumferential slots on a cylindrical waveguide. *International Journal of Electronics and Communications (AEÜ)*. <http://dx.doi.org/10.1016/j.aeue.2016.01.010>
- [110 E] Alaa A. Sarhan, Nader Ghadimi, Emad Hamidi and Homayoon Oraizi, Broadband Radial Waveguide Power Combiner with Improved Isolation among Adjacent Output Ports. *Progress In Electromagnetics Research C*, Vol. 51, 63-70, 2014
- [109 E] R. Karimian, H. Oraizi, S. Fakhte, Design of a compact ultra-wide-band monopole antenna with band rejection characteristics. *IET Microw. Antennas Propag.*, 2014, Vol. 8, Iss. 8, pp. 604–610, doi: 10.1049/iet-map.2013.0085

- [108 E] H. Oraizi and M. Moghanni, Optimum design of a wide band six-port power divider with selectable power division ratios by the method of least squares. IET Microw. Antennas Propag., 2014, Vol. 8, Iss. 12, pp. 943–950, doi: 10.1049/iet-map.2013.0468
- [107 E] Oraizi, H. and H. Soleimani, Optimum pattern synthesis of non-uniform spherical arrays using the Euler rotation. IET Microw. Antennas Propag., 2015, Vol. 9, Iss. 9, pp. 898–904
- [106 E] Fakhte, S. and H. Oraizi, A new wide band circularly polarized stair-shaped dielectric resonator antenna. IEEE Transactions on Antennas and Propagation, VOL. 63, No. 4, April 2015, PP 1828-1832.
- [105 E] H. Oraizi and H. Soleimani, Miniaturization of the triangular patch antenna by the novel dual-reverse arrow fractal. IET Microwaves, Antennas and Propagation, 2014.
- [104 E] Amini, A., Oraizi, H., Chaychi Zadeh, M.A., Miniaturized UWB Log-Periodic Square Fractal Antenna, Antennas and Wireless Propagation Letters, IEEE (Volume:14), 1322 – 1325, 29 July 2015
- [103 E] N. Valizade and H. Oraizi, Frequency and Time Domain Analysis of A Novel Reconfigurable Microstrip Antenna for UWB Applications. Journal of Electromagnetic Waves and Application. 2016.
- [102 E] H. Oraizi and A. Yousefi, Optimum Design of a Wideband Planar N-Way Fork Power Divider with Arbitrary Power Division and Input-to-Output Impedance Matching. AEU – International Journal of Electronics and Communications. 2017.
- [101 E] S. Fakhte and H. Oraizi, ANALYSIS AND DESIGN OF RECTANGULAR UNIAXIAL AND BIAXIAL ANISOTROPIC DIELECTRIC RESONATOR ANTENNAS. Progress in Electromagnetic Research C, Vol. 62, PP. 43-52, 2016.
- [100 E] Pazoki, R, Kiaee, A. , Naseri, P. , Moghadas, H. , Oraizi, H. , Mousavi, P. , Circularly Polarized Monopole L-Shaped Slot Antenna with Enhanced Axial Ratio Bandwidth. Antennas and Wireless Propagation Letters, IEEE.
- [99 E] M. Dashti Ardakani, R. Karimian and H. Oraizi, Mutual Coupling Reduction of Closely Spaced MIMO Antenna Based on Metamaterial. The Applied Computational Electromagnetics Society Journal (ACES) 2017.
- [98 E] S. Fakhte, and H. Oraizi, Accurate Formulas for the Resonant Frequency and Q factor of Rectangular Dielectric Resonator Antenna. IEEE Antenna and wireless propagation Letters.

[97 E] H. Oraizi and E. Bidaki, DESIGN OF MINIATURIZED PLANAR SIW DIPLEXERS USING DUAL-MODE RESONATORS. PIER Letters, Progress In Electromagnetics Research Letters, Vol. 54, pp 129-135, 2015.

[96 E] H. Oraizi, H. Soleimani and M-R Azadkhah, Synthesis of linearly polarized patterns of conical arrays by the method of least square. IET Microw. Antennas Propag., 2015, Vol. 9, Iss. 2, pp. 185–191, doi: 10.1049/iet-map.2013.0719

[95 E] S. Fakhte, H. Oraizi and R. Karimian, A Novel Low-Cost Circularly Polarized Rotated Stacked Dielectric Resonator Antenna. IEEE ANTENNAS AND WIRELESS PROPAGATION LETTERS, VOL. 13, 2014, pp 722-725

[94 E] Alaa A. Sarhan, Seyed H. Mohseni-Armaki, H. Oraizi, N. Ghadimi and M. Tayarani, Simulation and Implementation of a New X-Band 1 : 4 Power Divider/Combiner Based on a New Waveguide H-Plane Folded Magic-T. Progress In Electromagnetics Research C, Vol. 54, 49{56, 2014

[93 E] H. ORAIZI, M. ZOUGHI, Optimum design of bandpass Filters using coupled open- and short-ended resonators. Turkish Journal of Electrical Engineering & Computer Sciences, <http://journals.tubitak.gov.tr/elektrik/>, Published Online: ..2014.

[92 E] R. Karimian, H. Oraizi, S. Fakhte, and M. Farahani, Novel F-Shaped Quad-Band Printed Slot Antenna for WLAN and WiMAX MIMO Systems. IEEE ANTENNAS AND WIRELESS PROPAGATION LETTERS, VOL. 12, 2013 405-408.

[91 E] H. Oraizi and B. Rezaei, Dual-Banding and Miniaturization of Planar Triangular Monopole Antenna by Inductive and Dielectric Loadings. IEEE ANTENNAS AND WIRELESS PROPAGATION LETTERS, VOL. 12, 2013.

[90 E] D. Zarifi, H. Oraizi and M. Soleimani, Electromagnetic scattering from inhomogeneous planar-layered chiral media using the finite difference method. Journal of Electromagnetic Waves and Applications, 2013, Vol. 27, No. 5, 582–590, <http://dx.doi.org/10.1080/09205071.2013.757198>.

[89 E] H. Oraizi and R. Pazoki, Wideband Circularly Polarized Aperture-Fed Rotated Stacked Patch Antenna. IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, VOL. 61, NO. 3, MARCH 2013, pp 1048-1054.

[88 E] H. Oraizi and A. Shamsafar, OPTIMUM DESIGN OF MODIFIED SCHIFFMAN MULTI-SECTION WIDE BAND DIFFERENTIAL PHASE SHIFTER WITH IMPEDANCE MATCHING. Progress In Electromagnetics Research C, Vol. 29, pp 1-16, 2012.

[87 E] H. Oraizi and Sh. Hedayati, Miniaturization of Microstrip Antennas by the Novel Application of the iuseppe Peano Fractal Geometries. IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, VOL. 60, NO. 8, AUGUST 2012, pp 1-9.

[86 E] H. Oraizi and B. Rezaei, COMBLINE LOADINGS OF PRINTED TRIANGULAR MONOPOLE ANTENNAS FOR THE REALIZATION OF MULTI-BAND AND WIDEBAND CHARACTERISTICS. Progress In Electromagnetics Research B, Vol. 39, 179{195, 2012, pp179-195.

[85 E] H. Oraizi and B. Rezaei, Application of Inductive Loadings for the Dual and Broad Banding of CPW-Fed Ring Antennas, Applied Computational Electromagnetics Society Journal, ACES JOURNAL, VOL. 27, NO. 7, JULY 2012, pp 587-595.

[84 E] M. Shafiee, M ChaychiZadeh and H. Oraizi, Design of Miniaturized Multiband Filters Using Zero Order Resonators for WLAN Applications. International Journal of Microwave Science and Technology, Volume 2015, Article ID 345326, <http://dx.doi.org/10.1155/2015/345326>

[83 E] H. Oraizi and M. Moghanni, Optimum Design of a Wide Band Six-port Power Divider with Selectable Power Division Ratios by the Method of Least Squares. IET Microwaves, Antennas & Propagation,

[82 E] Oraizi, Homayoon, and Reza Pazoki. "Wideband circularly polarized aperture-fed rotated stacked patch antenna." Antennas and Propagation, IEEE Transactions on 61, no. 3 (2013): 1048-1054.

[81 E] Zarifi, Davoud, Mohammad Soleimani, Ali Abdolali, and Homayoon Oraizi. "Robust technique based on transition matrix method to electromagnetic characterisation of anisotropic material." IET Microwaves, Antennas & Propagation (2014).

[80 E] Tavassoli, Farhad, Bahman Abolhassani, Homayoon Oraizi, and Chi Zhou. "Three novel simple beamforming algorithms for CDMA communication systems." International Journal of Communication Systems 27, no. 2 (2014): 248-264.

[79 E] Sarhan, A. A., M. Tayarani, H. Oraizi, N. Ghadimi, and I. Hamidi, Optimized Broad Band Riblet Short-Slot Waveguide Coupler for X-Band Applications, International Journal of Scientific & Engineering Research, Volume 4, Issue 8, August-2013, 1021-1023, ISSN 2229-5518

- [78 E] Sarhan, A. A., M. Tayarani, H. Oraizi, N. Ghadimi, and I. Hamidi. "A New Approach for RF Power Amplifier Design including Nonlinear Properties." *International Journal of Scientific & Engineering Research*, Volume 4, Issue 8, August 2013, pp 597-600, ISSN 2229-5518
- [77 E] Rezaei, B., and H. Oraizi. "Dual Banding and Miniaturization of Planar Triangular Monopole Antenna by Inductive and Dielectric Loadings." *Antennas and Wireless Propagation Letters, IEEE* (Volume:12) 03 December 2013, pp 1594 - 1597
- [76 E] Oraizi, Homayoon, Amin Kargar Behbahani, Mahmoud T. Noghani, and Mahmoud Sharafimasouleh. "Optimum design of travelling rectangular waveguide edge slot array with non-uniform spacing." *IET Microwaves, Antennas & Propagation* 7, no. 7 (2013): 575-581.
- [75 E] Oraizi, Homayoon, and Seyede Yalda Torabi. "Novel application of a new metamaterial complementary electric LC resonator for the design of miniaturized sharp band-pass filters." *International Journal of RF and Microwave Computer-Aided Engineering* 23, no. 4 (2013): 471-475.
- [74 E] Oraizi, Homayoon, and Pazoki Reza. "Radiation characteristics improvement of aperture coupled antennas using double reflector structure." *IET Microwaves, Antennas & Propagation* 7, no. 14 (2013): 1168-1173.
- [73 E] Zarifi, D., H. Oraizi, and M. Soleimani. "Electromagnetic scattering from inhomogeneous planar-layered chiral media using the finite difference method. " *Journal of Electromagnetic Waves and Applications* 27, no. 5 (2013): 582-590.
- [72 E] Karimian, Reza, Homayoon Oraizi, Saeed Fakhte, and Mohammad Farahani. "Novel F-Shaped Quad Band Printed Slot Antenna for WLAN and WiMAX MIMO Systems." *IEEE Antennas & Wireless Propagation Letters*, Vol. 12, 2013, pp405-409.
- [71 E] A. Lak and H. Oraizi, Evaluation of SAR Distribution in Six-Layer Human Head Model. *International Journal of Antennas and Propagation IJAP*, Volume 2013 (2013), Article ID 580872, 8 pages, <http://dx.doi.org/10.1155/2013/580872>
- [70 E] S. E. Hosseinienejad, N. Komjani, H. Oraizi and M. T. Noghani, Optimum Design of SIW Longitudinal Slot Array Antenna with Specified Radiation Patterns. *Applied Computational Electromagnetics Journal, ACES*, Vol. 27, No. 4, April 2013, pp. 320-325.
- [69 E] S. Fakhte, H. Oraizi and M. H. Vajed Samiei, A High Gain Dielectric Resonator Loaded Patch Antenna. *Progress in Electromagnetic Research C, PIER C*, Vol 30, pp. 147-158, 2012.

- [68 E] H. Oraizi and B Rezaei, Comblined Loadings of Printed Triangular Monopole Antennas for the Realization of Multiband and Wideband Characteristics. Progress in Electromagnetics Research B, PIER B, Vol. 39, pp. 179-195, 2012.
- [67 E] H. Oraizi and N. Azadi-Tinat, Optimum Design of Wideband Multilayered Parallel Coupled-line Microstrip Filters with the Suppression of Spurious Harmonics. International Journal on Communications and Propagation, June 2012, Vol. 1. n. 3, pp. 230-237.
- [66 E] H. Oraizi and N. Azadi-Tinat, Optimum Design of Novel UWB Multilayer Microstrip Hairpin Filters with Harmonic Suppression and Impedance Matching. International Journal of Antennas and Propagation IJAP.
- [65 E] H. Oraizi and S. -A. Ayati, Optimum Design of a Novel n-Way Planar Power Divider Using Coupled Open- and Short-Ended Resonators. IET Microwaves, Antennas and Propagation, IET-MAP Vol. 4, 2012, pp/418-425.
- [64 E] H. Oraizi and M. Zoughi, Optimum Design of Bandpass Filters Using Coupled Open- and Short-Ended Resonators. Turkish Journal Electrical Engineering & Computer Sciences, TUBIPAK, Turkey
- [63 E] H. Oraizi and S.-A. Ayati, Optimum Design of Broadband n-Way Rectangular Power Dividers with Arbitrary Power Division and Impedance Matching. IET Microwaves, Antennas & Propagation, Vol. 5, Issue 12, pp 1447-1454, September 2011.
- [62 E] H. Oraizi and Sh. Hedayati, Miniaturization of Microstrip Antennas by the Novel Application of the Giuseppe Peano Fractal Geometries. IEEE Transactions on Antennas & Propagation, T-AP, Vol. 61, No. 8, Aug 2012
- [61 E] H. Oraizi and Sh Hedayati, Circularly Polarized Multiband Microstrip Antenna using the Square and Giuseppe Peano Fractals. IEEE Transactions on Antennas & Propagation, T-AP vol.60, no.7, July 2012, pp. 3466-3470
- [60 E] H. Oraizi and Sh. Hedayati, Miniaturized UWB Monopole Microstrip Antenna Design by the Combination of Giuseppe Peano and Sierpinski Carpet Fractals. IEEE Antennas and Wireless Propagation Letters, Vol. 10, pp 67-70, 2011.
- [59 E] H. Oraizi and B. Rezaei, Improvement of Antenna Radiation Efficiency by the Suppression of Surface Waves. Journal of Electromagnetic Analysis and Applications (JEMAA).

- [58 E] H. Oraizi and A-R Shamsafar, Optimum Design of Modified Schiffman Multi-section Differential Phase Shifter with Impedance Matching. Progress in Electromagnetics Research C, PIER C, Vol. 29, pp.1-16, 2012.
- [57 E] H. Oraizi and M. Fallahpour, Sum, Difference and Shaped Beam Pattern Synthesis by Non-uniform Spacing and Phase Control. IEEE Transactions on Antennas and Propagation, 2011.
- [56 E] H. Oraizi and R. Pazoki, Radiation Bandwidth Enhancement of Aperture Stacked Microstrip Antennas. IEEE Transactions on Antennas and Propagation, 2011
- [55 E] H. Oraizi and A. Abdolali, Ultra-Wide-Band Radar Cross-Section Reduction of a Perfectly Electric Conductor Sphere by the Application of Multilayer Metamaterial Coatings. Journal of Microwaves, Optoelectronics and Electromagnetic Applications. 2016.
- [54 E] H. Oraizi and A-R Sharifi, Optimum Design of Asymmetrical Multi-Section Two- Way High Power Dividers with Arbitrary Power Division and Arbitrary Impedance Matching. IEEE Transactions on Microwave Theory and Technique, Vol. 59, No. 6, pp 1478-1490, June 2011.
- [53 E] H. Oraizi and M.S. Esfahlan, Impedance Matching and Spurious Response Suppression in Stepped-Impedance Low Pass Filters. Microwave and Optical Technology Letters, Vol. 53, No. 9, pp 2081-2086, September 2011.
- [52 E] H. Oraizi and A. Abdolali, Some Aspects of Radio Wave Propagation in Double Zero Metamaterials Having the Real Parts of Epsilon and Mu equal to Zero. Journal of the Electromagnetic Waves and Applications (JEMWA), Vol 23, pp 1957-1968, 2009.
- [51 E] H. Oraizi, A. Abdolali and Noushin Vaseghi, Application of Double Zero Metamaterials (DZR) as Radar Absorbing Materials (RAMs) for the Reduction of Radar Cross Section (RCS). Progress In Electromagnetics Research, PIER 101, 323–337, 2010
- [50 E] H. Oraizi and E. Forati, Novel Circuit Topologies for Active Distributed Frequency Multiplexers and De-multiplexers. International Journal of RF and Microwave Computer Aided Engineering, Volume 21, Issue 1, pages 67–76, January 2011
- [49 E] A. Abdolali, H. Oraizi and Ahad Tavakoli, Determination of Dispersion Relations for Ultra Wide Band Radar Absorbing Materials. International Review of Electrical Engineering (IREE) ;Mar/Apr2010 Part B, Vol. 5 Issue 2, p779
- [48 E] H. Oraizi and E. Forati, Novel Wideband Active Microstrip Antennas Using Active Distributed Frequency Multiplexers or De-multiplexers. International Journal of RF and Microwave Computer Aided Engineering (IJRFMiCAE) , Volume 20, Issue 4, pages 408–415, July 2010.

- [47 E] H. Oraizi and A. Abdolali, Several Theorems for the reflection and Transmission Coefficients of Plane Wave Incidence on Planar Multilayer Metamaterial Structures. IET Microwaves, Antennas and Propagation, Vol. 4, Issue 11, November 2010, pp1870-1879.
- [46 E] H. Oraizi and M.S. Esfahlan, Optimum Design of Lumped Filters Incorporating Impedance Matching by the Method of Least Squares. Progress in Electromagnetics Research, PIER 100, pp 83-103, 2010.
- [45 E] H. Oraizi and M. Fallahpour, Non-uniformly Spaced Linear Array Design for the Specified Beam-width/Sidelobe Level or Specified Directivity/Sidelobe Level with Coupling Considerations. Progress in Electromagnetic Research M, Vol. 4, pp 185-209, 2008.
- [44E] H. Oraizi and M. T. Noghani, Design and Optimization of Waveguide-Fed Centered Inclined Slot Arrays. IEEE Transactions on Antennas and Propagation, IEEE-TAP, Vol. 57, No. 12 ,pp 3991-3995, Dec 2010.
- [43 E] H. Oraizi and A. Sharifi, Optimum Design of a Wideband Two-Way Gysel Power Divider with Input-Output Impedance Matching. IEEE Transactions on Microwave Theory and Technique, no. 9, T-MTT-Vol- , Sep 2009, pp
- [42] H. Oraizi and A-R Sharifi, Optimum Design of Multi-section Two-Way High Power Dividers for Unequal Power Division and Impedance Matching, IET Microwave, Antennas & Propagation, Vol. 6, Issue 4, 2012, pp 426-434.
- [41 E] H. Oraizi and M. Afsahi, Transmission Line Modeling and Numerical Simulation for the Analysis and Optimum Design of Metamaterial Multilayer Structures. Progress in Electromagnetic Research B, PIER B
- [40 E] H. Oraizi and A. Abdolali, Mathematical Formulation for Zero Reflection from Multilayer Metamaterial Structures and their Applications. The Institution of Engineering and Technology, IET Microwave, Antennas and Propagation, 2009, pp 1-10.
- [39 E] H.Oraizi and T. Noghani, Design and Optimization of Nonuniformly Spaced Longitudinal Slot Arrays. Progress in Electromagnetics Research M, Vol. 4, pp155-165, 2008.
- [38 E] H. Oraizi and M Afsahi, Design of metamaterial Multilayer Structures as Frequency Selective Surfaces. Progress in Electromagnetics Research C, Vol. 6, pp 115-126, 2009.
- [37 E] H. Oraizi and M.S. Esfahlan, Miniturization of Wilkinson Power Dividers by Using Defected Ground Structures. Progress in Electromagnetics Research Letters. Vol. 4, pp 113-120, 2008.

- [36 E] H. Oraizi and A. Abdolali, Design and Optimization of Planar Multilayer Antireflection Metamaterial Coatings at Ku Band under Circularly Polarizes Oblique Plane Wave Incidence. Progress in Electromagnetics Research C, Vol. 3, pp 1-18, 2008.
- [35 E] M. Moradian and H. Oraizi, Application Of Grooved Substrates for Design of Unequal Wilkinson Power Dividers. Electronics Letters, 3rd January 2008, Vol. 44, No.1.
- [34 E] H. Oraizi and A. Abdolali, Combination of MLS, GA & CG for the Reduction of RCS of Multilayered Cylindrical Structures Composed of Dispersive Metamaterials. Progress in Electromagnetics Research B, Vol. 3, pp227-253, 2008
- [33 E] H. Oraizi and M Afsahi, Analysis of Planar Dielectric Multilayers as FSS by Transmission Line Transfer Matrix Method (TLTMM). Progress in Electromagnetics Research, PIER 74, pp 217-240, 2007.
- [32 E] H. Oraizi and A. Abdolali, Ultra Wide Band RCS Optimization of Multilayered Cylindrical Structures for Arbitrarily Polarized Incident Plane Waves. Progress in Electromagnetics Research, PIER 78, pp 129-157, 2008.
- [31 E] A. R. Mallahzadeh, H. Oraizi and Z. Davoodi-Rad, Application of the Invasive Weed Optimization Technique for Antenna Configurations. Progress in Electromagnetics Research, PIER 79, pp137-150, 2008.
- [30 E] H. Oraizi, Application of the Method of Least Squares to Electromagnetic Engineering Problems. IEEE Antennas and Propagation Magazine, Vol. 48, No. 1, pp 50-74, Feb 2006.
- [29 E] H. Oraizi and A. Sharifi, Design and Optimization of Broadband Asymmetrical Multi-section Wilkinson Power Divider. IEEE Trans. on Microwave Theory and Technique, Vol. 54, No. 5, pp 2220-2231, May 2006.
- [28 E] H. Oraizi and N. Noori, Least Square Solution of the 3-D Vector Parabolic Equations. Journal of Electromagnetic Waves and Applications, Vol. 20, No. 9, pp1175-1187, Sep 2006.
- [27 E] H. Oraizi, M. Moradian and K. Hirasawa, Design and Optimization of Microstrip Parallel Coupled-Line Band-pass Filters Incorporating Impedance Matching. IEICE Trans. on Communications, (Japan), Vol. E 89-B, No.11, pp 2982-2989, Nov 2006.
- [26 E] H. Oraizi and Sh. Hosseinzadeh, Radio Wave Propagation Modeling in the Presence of Single and Multiple Knife-Edges by Bidirectional Parabolic Equation Method. IEEE Transactions on Vehicular Technology, Vol. 56, No.3, pp 1033-1040, May 2007.

- [25 E] M. Moradian and H. Oraizi, Optimum Design of Microstrip Parallel Coupled-Line Band-pass Filters for Multi-Spurious Pass-band Suppression. Proceedings of IET on Microwaves, Antennas and Propagation, Vol. 1, No.2, pp 488-495, April 2007.
- [24 E] H. Oraizi and Sh. Hosseinzadeh, A Novel Marching Algorithm for Radio Wave Propagation Modeling over Rough Surfaces. Progress In Electromagnetic Research, PIER 57, pp 85-100, 2006.
- [23 E] H. Oraizi and K. Keyghobad, Phase Response of Scattered Fields from Microstrip Reflectarray Elements Using FDTD Method, WSEAS Transactions on Communication, Issue 2, Volume 5, February 2006.
- [22 E] H. Oraizi and Sh Jam, Analysis of the Tapered Slot Antenna by the Method of Least Squares. Iranian Journal of Science and Technology, Transaction B, Shiraz University, Vol. 29, No. B4, pp 443-457, 2005.
- [21 E] H. Oraizi and Sh. Jam, Optimum Design of Tapered Slot Antenna Profile. IEEE Transactions on Antennas and Propagation, Vol.51, No. 8, pp1987-1995, August 2003.
- [20 E] H. Oraizi and Gh. Gabaranzad-Ghadim, Optimum Design of Broadband Multisection Coupled-Line Couplers with Arbitrary Coupling and Impedance Matching. IEICE Transactions on Communications (Japan), Vol. E86-B, No. 9, September 2003, pp 2709-2719.
- [19 E] H. Oraizi and J. Hamedfar, Optimum Design of Broadband Branch-Line Couplers with Arbitrary Power Division and Impedance Transformation. International Journal on Wireless and Optical Communication, Vol. 2, No. 2, 2004, pp 203-221.
- [18 E] N. Noori, H. Oraizi, Evaluation of the MIMO Channel Capacity in Indoor Environments Using Vector Parabolic Equation Method. Progress in Electromagnetics Research B, Vol. 4, pp 13-25, 2008
- [17 E] N. Noori and H. Oraizi, Application of the Parabolic Equation Method to Several Canonical Indoor Propagation Problems, International Journal on Wireless & Optical Communications, Vol. 4, No.2, pp 165-182, May 2007.
- [16 E] H. Oraizi and Sh. Hosseinzadeh, Application of the Rotating Angle Parabolic Equation Method for the Solution of Scattering Problems. Wireless and Personal Communications, pp 209-224, 2008
- [15 E] H. Oraizi, Solution of the Junction of TE₁₁ Mode Circular Waveguides by the Method of Least Squares. International Journal of Engineering Sciences, Iran University of Science and Technology, Vol. 15, No.3, 2004, pp 25-39.

- [14 E] H. Oraizi, Optimum Design of Multi-hole Directional Couplers with Arbitrary Aperture Spacing. IEEE Transactions on Microwave Theory and Technique, Vol. 46, No. 4, April 1998, pp 331-342.
- [13 E] H. Oraizi, Design of Impedance Transformers by the Method of Least Squares. IEEE Transactions on Microwave Theory and Technique, Vol. 44, No. 3, March 1996, pp 389-399.
- [12 E] H. Oraizi, Optimum Design of Stepline Transformers of Arbitrary Length including Step Discontinuities. Iranian Journal of Science and Technology, Transaction B, Shiraz University, Vol. 25, No. 1, 2001, pp1-14.
- [11 E] H. Oraizi and Gh.-R Gabaranzad-Ghadim, Optimum Design of Broadband Multisection Coupled-Line Couplers with Real Impedance Matching. International Journal of Engineering Sciences, Iran University of Science and Technology, Vol. 14, No. 1, 2003, pp 157-170.
- [10 E] H. Oraizi, Solution of Equations by the Method of Least Squares. International Journal of Engineering Sciences, Iran University of Science and Technology, Vol. 5, No. 2a, 1994, pp 24-45.
- [09 E] A. Cheldavi, H. Oraizi and M Kamarei, Time Domain Analysis of Transmission Lines. International Journal of Engineering Sciences, Iran University of Science and Technology, Vol. 9, No. 4, 1998, pp1-23.
- [08 E] H. Oraizi, Technology Transfer Implementation. Asia Electronics ion: AEU, No. 6, June 1978, pp 99-105.
- [07 E] H. Oraizi, Mobile Radio in Iran. Asia Electronics :::::::::::union::::::::::::::::::, AEU, No. 6 June 1981, pp144-151.
- [06 E] H. Oraizi, Electronics Industries in Iran. Asia Electronics :::::::::::union::::::::::::::::::, AEU, No.11, Noveber 1979, pp118-126.
- [05 E] H. Oraizi, Education in Technology Transfer. Asia Electronics :::::::::::union::::::::::::::::::, AEU, No.8, August, 1979, pp131-135.
- [04 E] H. Oraizi and Perini, A Numerical Method for the Solution of the Junction of Cylindrical Waveguides. IEEE Transactions on Microwave Theory and Technique, October 1973, pp 640-642.
- [03 E] H. Oraizi and J. Perini, Non-uniform Transmission Line Synthesis by Least Squares. Iranian Journal of Science and Technology, Shiraz University, Vol. 5, May 1976, pp131-141.

[02 E] H. Oraizi and G. Foster, A Note on the Quotient-Difference Algorithm. IEEE Transactions on Automatic Control, Vol. AC-15, February 1970, pp134-135.

[01 E] H. Oraizi, Zeros of $f(z) = (az-b)^n + (cz-d)^n$. IEEE Transactions on Automatic Control, Vol. AC-17, April 1972, pp 159-161.

VIII- CONFERENCE PAPERS IN ENGLISH:

[124E] H. Oraizi and R. Tirandaz, Design of a novel miniaturized planar structure for the realization of artificial magnetic conductors, 23rd Iranian Conference on Electrical Engineering, May 10-14, 2015, Sharif University of Technology, Tehran, Iran.

[123E] H. Oraizi and Sh. Hedayati, Application of Z-type and Hilbert Fractal Structures for Multiband and Circularly Polarized Microstrip Antennas. Mediterranean Microwave Symposium, 15'th MMS, 30 Nov-2 Dec 2105, Lecce, Italy.

[122E] A. Farahbakhsh, M. Khalaj-Amirhosseini and H. Oraizi, Ellipsoid Anechoic Chamber for Radiation Pattern Measurements. Mediterranean Microwave Symposium, 15'th MMS, 30 Nov-2 Dec 2105, Lecce, Italy.

[121E] D. Zarifi and H. Oraizi, Electromagnetic Characterization of Inhomogeneous Chiral Media Using the State Space Method. Mediterranean Microwave Symposium, 15'th MMS, 30 Nov-2 Dec 2105, Lecce, Italy.

[120E] H. Oraizi and Sh. Hedayati, Microstrip multiband fractal dipole antennas

using the combination of Sierpinski, Hilbert and Giuseppe Peano fractals. 14'th Mediterranean Microwave Symposium (MMS), 12-14 Dec 2014, Marrakech, Morocco.

[119E] A. Lak and H. Oraizi, Interaction of the human head and electromagnetic waves from a dipole antenna. 2nd Iranian Conference on Bio-electromagnetism, Tehran University, Tehran, Iran, 18-20 December 2013.

[118E] H. Oraizi and M.A. Chaichizadeh, Methods of implementation of stealth, cloaking and radar invisibility. Seminar on Civil Defense in Science and Engineering, Emam Hossein University, Tehran, Iran, 19 February 2013.

[117E] H.Oraizi and Sh. Hedayati, A Novel Wide Slot Antenna Design using the Giuseppe Peano Fractal Geometry. 20'th Iranian Conference on Electrical Engineering, Proc ICEEE pp 1058-1061, Tehran University, Tehran, Iran,

[116E] H. Oraizi and M. Afsahi, Design of UWB radar absorbing materials made of metamaterials. 5'th Iranian Conference on Electronic Warfare, Emam Hossein University, Tehran, Iran, January 2012, ICEW Proc. pp 1-7.

[115E] H. Oraizi and M. Zoughi, Wide Band Harmonic Suppression Bandpass Filters Using Coupled Open- and Short-ended Resonators. Progress In Electromagnetics Research Symposium, Kuala Lumpur, MALAYSIA, March 27-30, 2012, PIERS Proc. pp 292

[114E] M. Afsahi and H. Oraizi, Design of dual-band antenna radome using metamaterials. First Conference on Passive Observation Systems, Shiraz University, Shiraz, Iran, 14-15 December 2011, proc. pp 1-6

[113E] K. Nikoei-Tehrani, E. Ghasemi, F. Aghamohammadi, H. Oraizi, A. Abdolali and F. Hodjat-Kashani, Implementation of PEMC boundary condition for UWB systems at microwave frequencies. The First Iranian Conference on Engineering Electromagnetics, ICEEM, January 2012, Iran University of Science and Technology, Tehran, Iran, pp 12-15

[112E] S. Atashbahar, M. Tayarani, H. Oraizi and S. Bianlo, Stop band filter with desirable selectivity at its two frequency limits using DGS. The First Iranian Conference on Engineering

Electromagnetics, ICEEM, January 2012, Iran University of Science and Technology, Tehran, Iran, pp 247-250

[111E] H. Oraizi, M Bahramgiri and Sh. Hedayati, Miniaturized multi-layer dual-band fractal E-shaped patch antenna with omnidirectional pattern. The First Iranian Conference on Engineering Electromagnetics, ICEEM, January 2012, Iran University of Science and Technology, Tehran, Iran, pp 124-128.

[110E] H. Oraizi and Sh. Hedayati, A UWB monopole fractal antenna with the Hilbert fractal slots in the ground plane. The First Iranian Conference on Engineering Electromagnetics, ICEEM, January 2012, Iran University of Science and Technology, Tehran, Iran, pp 116-119.

[109E] H. Oraizi and Sh. Hedayati, Microstrip Slot Antenna using the Novel Application of Giuseppe Peano Fractal and CPW Feed. 8'th European Conference on Antennas and Propagation, 6-11 April 2014, The Hague, The Netherlands.

[108E] H. Oraizi and Sh. Hedayati, Analysis of Coupling in an Array Composed of Patches Having Giuseppe Peano Fractal Boundaries. 8'th European Conference on Antennas and Propagation, 6-11 April 2014, The Hague, The Netherlands.

[107E] A Shamsafar, E. Abaei, H. Oraizi and E. Arnieri, Optimum Design of a Novel Multi-section Wide-band Phase Shifter for Phased Array Antenna Beam Forming Network. 8'th European Conference on Antennas and Propagation, 6-11 April 2014, The Hague, The Netherlands.

[106E] H.Oraizi. "Application of the Method of Least Squares to Electromagnetic." ASEPE-2012. The 1st Asian Conference on Applied Electromagnetics & wave Optics.4-6 December, Tabriz, Iran.

[105E] Azarbar, Ali, Mahmoud Sharafi Masouleh, Amin Kargar Behbahani, and Homayoun Oraizi. "Comparison of different designs of cylindrical printed quadrifilar Helix antennas." In

Computer and Communication Engineering (ICCCE), 2012 International Conference on, pp. 18-21. IEEE, 2012.

[104E] Davoud Zarifi, Homayoon Oraizi, and Mohammad Soleimani "Oblique Incidence of Plane Waves on PEC, PMC or PEMC Backed Inhomogeneous Chiral Slabs" In Mediterranean Microwave Symposium (MMS), 2012.

[103E] Oraizi, Homayoon, and Seyyed Hamzeh Hashemi. "Design of a non-Foster impedance matching network for electrically small antennas." In Mediterranean Microwave Symposium (MMS), 2013 13th, pp. 1-4. IEEE, 2013.

[102E] Oraizi, Homayoon, Mojtaba Bahramgiri, and Shahram Hedayati. "A novel miniaturized multilayer E-shaped patch antenna using Giuseppe Peano fractal geometry on its edges for WLAN dual-band applications." In Electrical Engineering (ICEE), 2013 21st Iranian Conference on, pp. 1-4. IEEE, 2013.

[101E] Emamimeybodi, Seyed Mohammad, and Homayoon Oraizi. "Mutual coupling reduction in microstrip patch antenna arrays by using planar EBG structure in X band." In Electrical Engineering (ICEE), 2013 21st Iranian Conference on, pp. 1-5. IEEE, 2013.

[100E] Zarifi, Davoud, Homayoon Oraizi, Mohammad Soleimani, and Ali Abdolali. "Analysis of reflection and transmission from biaxial chiral slabs using the state space approach." In Mediterranean Microwave Symposium (MMS), 2013 13th, pp. 1-4. IEEE, 2013.

[99 E] Oraizi, H., Hamidkhani, M., Hedayati, S., Miniaturized ultra-wideband circular metallic plate antenna suspended by shorting pins, Microwave Symposium (MMS), 2014 14th Mediterranean, Marakesh, Morocco.

[98 E] A. Abdolali, H. Oraizi, S Hashemi, A. Mohtadi and N. Vaseghi, H. Mirzaei and M. Aghajani, The Physical Interpretation of Complex Angles of Refraction in DZR Metamaterials.

Progress in Electromagnetics Research Symposium, PIERS2012, March 27-30, 2012, Kuala Lumpur, Malaysia.

[97 E] H. Oraizi and Zoughi, Wideband Harmonic Suppression Bandpass Filters using Coupled Open- and Short-ended Resonators. Progress in Electromagnetics Research Symposium, PIERS2012, March 27-30, 2012, Kuala Lumpur, Malaysia.

[96 E] H. Oraizi and Sh. Hedayati, Circularly Polarized Multiband Microstrip Antenna using the Combination of Novel Fractals. Progress in Electromagnetics Research Symposium, PIERS2012, March 27-30, 2012, Kuala Lumpur, Malaysia.

[[95 E] M. Mehrparvar, o. Hoseini-Izadi and H. Oraizi, Design of Microstrip Spiral Antenna using Genetic Algorithm. Sixth International Symposium on Telecommunication, IST2012, 6-8 November 2012, Information and Communication Technology Research Institute, Tehran, Iran.

[94 E] H. Oraizi and Sh. Hedayati, A Novel Wideband Slot Antenna Design using the Giuseppe Peano Geometry. 20th Iranian Conference on Electrical Engineering, ICEE2012, 15-17 May 2012, Tehran University, Iran.

[93 E] H. Oraizi and M Moghani, Optimum Design of a Novel Six-Port Power Divider with Variable Output Power Division Ratios. 12th Mediterranean Microwave Symposium, MMS2012, 2-5 September 2012, Dgus University, Istanbul, Turkey.

[92 E] H. Oraizi and Seyede Yalda Torabi, Novel Application of a new Metamaterial Complementary Electric LC Resonator (CELCR) for the Design of Miniaturized Sharp Bandpass Filters. 12th Mediterranean Microwave Symposium, MMS2012, 2-5 September 2012, Dgus University, Istanbul, Turkey.

[91 E] D. Zarifi, H. Oraizi and M. Soleimani, Analysis of PEC, PMC and PEMC Backed Inhomogeneous Planar Layered Chiral Media. 12'th Mediterranean Microwave Symposium, MMS2012, 2-5 September 2012, Dgus University, Istanbul, Turkey.

[90 E] M. Mehrparvar, O. Hoseini-Izadi and H. Oraizi, Design of Microstrip Spiral Antenna Using Genetic Algorithm. 11'th Mediterranean Microwave Symposium, MMS2, 08-10 September 2011, Hammamet, Tunisia.

[89 E] A. Lak and H. Oraizi, Simulation and Evaluation of Specific Absorption Rate in Human Body at High Frequency Electromagnetic Fields. The 2011 International Conference on Mechanical and Aerospace Engineering, ICMAE 2011, 29-31 July 2011, Gangkok, Thailand

[88 E] H. Oraizi and M. Hamidkhani, Design of Miniaturized Multi-band Microstrip Antennas with Helical Slot Patterns on Patches. European Microwave Conference, EuMC 2011, 9-14 October 2011, Manchester, United Kingdom.

[87 E] H. Oraizi and Sh. Hedayati, Wideband Monopole Fractal Antenna with Hilbert Fractal Slot Patterned Ground Plane. European Microwave Conference, EuMC 2011, 9-14 October 2011, Manchester, United Kingdom.

[86 E] H. Oraizi and Sh. Hedayati, Combined Fractal Geometries for the Design of Wide Band Microstrip Antennas with Circular Polarization. Progress In Electromagnetics Research Symposium, PIERS 2011, 12-16 September 2011, Suzhou, China.

[85 E] H. Oraizi and M. Hamidkhani, Miniaturized Ultra-wideband Circular Metallic Plate Antenna Suspended by Shorting Pins. Progress In Electromagnetics Research Symposium, PIERS 2011, 12-16 September 2011, Suzhou, China.

[84 E] H. Oraizi and Sh. Hedayati, Wide Band Antenna Design by the Stacked Koch Fractal Structures. Progress In Electromagnetics Research Symposium, PIERS 2011, 12-16 September 2011, Suzhou, China.

[83 E] Gh. Mahmoudi, H. Oraizi, K. Malekzadeh, and M. T. Noghani, Design Optimization and VSWR Improvement of a Standing Wave longitudinal Slot Array on a Rectangular Waveguide. 19th Iranian Conference on Electrical Engineering, ICEE2011, 17-19 May 2011, Amirkabir University of Technology, Tehran, Iran.

[82 E] H. Oraizi and Sh. Hedayati, Application of Lebesgue Fractal Structures for Multiband and Circularly Polarized Microstrip Antennas. Asia Pacific Microwave Conference, APMC[®], 7-17 Oct 2010, Pacifico Yokohama, Japan.

[81 E] H. Oraizi and M. Hamidkhani, Wide-Band Microstrip Patch Antennas Using Parasitic Elements and Defected Ground Structures on Different Substrates. The 1st Middle East Conference for Antennas and Propagation, MECAP[®], 20-22 Oct 2010, Cairo, Egypt

[80 E] S. Hashemi, A. Mohtadi, A. Abdolali and H. Oraizi, Metamaterial Hat. Progress in Electromagnetics Research Symposium, PIERS[®], 5-8 July 2010, Cambridge, Massachusetts, USA

[79 E] H. Oraizi, A. Abdolali and N. Vaseghi, Zero Reflection from a PEC Plate Coated by Double Zero (DZR) Metamaterials. Progress in Electromagnetics Research Symposium, PIERS[®], 5-8 July 2010, Cambridge, Massachusetts, USA

[78 E] H. Oraizi and M. Hamidkhani, A Novel Feeding System for the Design of Ultra-Wideband Miniaturized Microstrip Patch Antenna. The 40th European Microwave Conference, EuMC[®], 26 Sep through 1 Oct 2010, CNIT, Paris, France

[77 E] H. Oraizi and B. Rezaei, Microstrip Ring Antenna on Grooved Substrate for the Enhancement of Radiation Efficiency. 10th Mediterranean Microwave Symposium, MMS[®], 25-27 August 2010, Middle East Technical University, Guzelyurt, Northern Cyprus

[76 E] H. Oraizi and E. Forati, Adjustment of Resonant Frequency of Rectangular Patch Antennas by Placing Metallic walls or Vias Adjacent to their Edges. 10th Mediterranean Microwave Symposium, MMS², 25-27 August 2010, Middle East Technical University, Guzelyurt, Northern Cyprus

[75 E] H. Oraizi and M. Hamidkhani, Dual-band Microstrip Notch Filters Using Slotted Square Patch Resonators. 10th Mediterranean Microwave Symposium, MMS², 25-27 August 2010, Middle East Technical University, Guzelyurt, Northern Cyprus

[74 E] H. Oraizi and Sh. Hedayati, Combined Fractal Geometries for the Design of Wideband Microstrip Antennas with Circular Polarization, 10th Mediterranean Microwave Symposium, MMS², 25-27 August 2010, Middle East Technical University, Guzelyurt, Northern Cyprus

[73 E] H. Oraizi and Seyyed Amir Ayati, Optimum Design of a Modified 3-Way Bagley Rectangular Power Divider. 10th Mediterranean Microwave Symposium, MMS², 25-27 August 2010, Middle East Technical University, Guzelyurt, Northern Cyprus

[72 E] H. Oraizi, A. Abdolali and N. Vaseghi, Introduction of a New Class of Materials Called Double Zero Media Having the Real Parts of Epsilon and MU Equal to Zero. Progress in Electromagnetic Symposium, PIERS 2009, August 18-21, 2009, Moscow State Institute of Radio Engineering, Electronics and Automation, Moscow, Russia.

[71 E] H. Oraizi and A. Shamsafar, Design and Optimization of Wideband Multi-section Coupled-Line Phase Shifters with Impedance Matching. Progress in Electromagnetic Symposium, PIERS 2009, August 18-21, 2009, Moscow State Institute of Radio Engineering, Electronics and Automation, Moscow, Russia.

[70 E] H. Oraizi and M. Seyyed Esfahlan, Optimum Design of Low Pass Filters for General LC Network Configurations by the Method of Least Squares. Progress in Electromagnetic Symposium, PIERS 2009, August 18-21, 2009, Moscow State Institute of Radio Engineering, Electronics and Automation, Moscow, Russia.

[69 E] H. Oraizi and A. Abdolali, A Theorem for the Reflection and Transmission of Electromagnetic Waves from a Slab Made of Common Materials and Metamaterials.

Progress in Electromagnetic Symposium, PIERS 2009, August 18-21, 2009, Moscow State Institute of Radio Engineering, Electronics and Automation, Moscow, Russia.

[68 E] A. Abdolali, H. Oraizi and A. Tavakoli, Ultra Wide Band Absorbing Materials, Progress in Electromagnetic Symposium, PIERS 2009, August 18-21, 2009, Moscow State Institute of Radio Engineering, Electronics and Automation, Moscow, Russia.

[67 E] H. Oraizi and A. Shamsafar, Optimum Design of Broadband Coupled-Line Phase Shifters Incorporating Impedance Matching of Source and Load Impedances. 2009 International Conference on Advances in Computational Tools for Engineering, ACTEA 2009, 15-17 July 2009, Notre Dame University, Beirut, Lebanon.

[66 E] H. Oraizi and A. Shamsafar, Optimum Design of Broadband Schiffman Phase Shifters Incorporating Load and Source Impedance Matching. 2009 International Conference on Advances in Computational Tools for Engineering, ACTEA 2009, 15-17 July 2009, Notre Dame University, Beirut, Lebanon.

[65 E] H. Oraizi, E. Forati and M. Seyyed Esfahlan, A Novel Topology for the Implementation of Active Distributed Multiplexers. The 19th European Conference on Circuit Theory and Design 2009, ECCTD[®], 23-27 August 2009, Antalya, Turkey.

[64 E] H. Oraizi, M. Seyyed Esfahlan and E. Forati, Design of Stepped-Impedance Low Pass Filters with Impedance Matching by the Particle Swarm optimization and Conjugate Gradient Method. The 19th European Conference on Circuit Theory and Design 2009, ECCTD[®], 23-27 August 2009, Antalya, Turkey.

[63 E] H. Oraizi and M. T. Noghani, Design and Optimization of Waveguide-Fed Nonuniform Transverse Slot Arrays. 39th European Microwave Conference, EuMC 2009, Rome Italy, 28 Sep – 2 Oct 2009

[62 E] M. Naghshvarian-Jahromi and H. Oraizi, Fan-Beam Reflector Back Array Antenna for V-Band WLAN Application. Asia Pacific Microwave Conference, APMC 2009.

[61 E] K. Keyghobad, H. Oraizi, Phase Response of Microstrip Reflectarray Elements by FDTD Analysis, Computational Electromagnetics in Time-Domain, 15-17 October 2007. CEM-TD 2007. 7th Workshop on, Perugia, Italy

[60 E] H. Oraizi and M. Talafi Noghani, Design and Optimization of Linear and Planar Slot Arrays on Rectangular Waveguides. European Microwave Conference (EUMC2008), 27-31 October 2008, Amsterdam, The Netherlands.

[59 E] H. Oraizi and A. Abdolali, An Exact Mathematical Proof for the Condition of Zero Reflection by Multilayered Metamaterial Media. International Conference on Recent Advances in Microwave Theory and Applications, Jaipur, India, 21-23 November 2008.

[58 E] h. Oraizi and M. Fallahpour, Array Pattern Synthesis with Mutual Coupling Consideration. International Symposium on Telecommunication, IST2008, Tehran, Iran

[57 E] Ch. Saeidi, M. Mohammadi and H. Oraizi, Cross Polarization Reduction by Defected Ground Structures for a Rectangular Microstrip Patch Antenna. Mediterranean Microwave Symposium, MMS2008, 14-16 October 2008, Damascus, Syria.

[56 E] H. Oraizi and M. Fallahpour, Array Pattern Synthesis with Input Impedance Matching, Mediterranean Microwave Symposium, MMS2008, 14-16 October 2008, Damascus, Syria.

[55 E] H. Oraizi and A. Abdolali, Analytical Determination of Zero Reflection Conditions for Oblique Incidence on Multilayer Planar Structures. Mediterranean Microwave Symposium, MMS2008, 14-16 October 2008, Damascus, Syria.

[54 E] H. Oraizi and Afsahi, Simulation of wave propagation in bulk inhomogeneous metamaterials by new transmission line formulation. Mediterranean Microwave Symposium, MMS2008, 14-16 October 2008, Damascus, Syria.

[53 E] H. Oraizi and Shamsafar, Application of DGS in the Design of Coupled-Line Couplers.

Mediterranean Microwave Symposium, MMS2008, 14-16 October 2008, Damascus, Syria.

[52 E] A. Baharlouei, B. Abolhassani and H. Oraizi, Space-Time Adaptive Processing in ESPAR Antenna and Adaptive Arrays in CDMA Systems: A Comparison. 2007 IEEE Sarnoff Symposium, April 30- May 2, 2007. Princeton, New Jersey, USA.

[51 E] H. Oraizi, N. Azadi-tinat and Sh. Saeedi, Design and Optimization of Microstrip Interdigital Bandpass Filters with Impedance Matching. Progress in Electromagnetic Research Symposium, PIERS 2008, Hangzhou, China, March 24-28, 2008.

[50 E] H. Oraizi and M. Afsahi, Lossless DNG-DPS Bilayer Structures for Tunneling and Zero Reflection. Progress in Electromagnetic Research Symposium, PIERS 2008, Hangzhou, China, March 24-28, 2008.

[49 E] H. Oraizi and H. Nemati, A New Simple Technique for Suppression of the Spurious Response at Twice the Passband Frequency. Progress in Electromagnetic Research Symposium, PIERS 2008, Hangzhou, China, March 24-28, 2008.

[48 E] H. Oraizi and M Afsahi, Determination of Correct Values for Propagation Constant, Intrinsic Impedance and Reflection Index of Metamaterials. IEEE Applied Electromagnetic Conference, AEMC 2007, December 19-20, 2007 Kolkata, India.

[47 E] H. Oraizi and N. Azadi-Tinat, A Novel Method for the Design and Optimization of Microstrip Multi-section Bandpass Compline Filters, 36th European Microwave Conference, EUMC 2006, 11-15 Sep 2006, GMEX/MICC, Manchester, UK.

[46 E] H. Oraizi and N. Azadi-Tinat, A Novel Method for the Design and Optimization of Microstrip Compline Filters with Tapped-Line Inputs, Mediterranean Microwave Symposium, MMS 2006, Genoa, Italy, 19-21-Sep 2006.

[45 E] H. Oraizi and N. Azadi-Tinat, Realization of Transmission Zeros for the Improvement of the Transition Bands of Compline Filters by Lumped Capacitors, Mediterranean Microwave Symposium, MMS 2006, Genoa, Italy, 19-21 Sep 2006.

[44 E] F. Tavassoli, B. Abolhassani, and H. Oraizi, A Simple Adaptive Beamforming Alorithm for CDMA Wireless Communication Systems. The 17th Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC'06), Finlandi Hall, Helsinki, Finland, 11-14 September 2006.

[43 E] F. Tavassoli, H. Oraizi and B Abolhassani, A New Rayleigh Quotient Based Beamforming Method for CDMA Communication Systems, 65th IEEE VTC Conference, Dublin, Ireland, 23-25 April 2007.

[42 E] H. Oraizi and K. Keyghobad, FDTD Analysis for Phase Response of Microstrip Reflectarray Elements of Variable Size. LAPC 2006 Loughborough Antennas and Propagation Conference, U.K.

Subway Tunnels. ISAP 2005, Seoul, Korea, August, 2005.

[41 E] N. Noori S. Safavi-Naeini and H. Oraizi, A New Three-Dimensional Vector Parabolic Equation Approach for Modeling Radio Wave Propagation in Tunnels. ISAP 2005, Seoul, Korea, August, 2005.

[40 E] A. Baharlouei, B Abolhassani and H. Oraizi, A New Smart Antenna for CDMA using Nelder-Mead Simplex Algorithm and ESPAR Antenna. The 2nd IEEE International Conference on Information & Communication Technologies: from Theory to Applications-ICTTA'06, Damascus, Syria, 24-28 April 2006.

[39 E] F. Tavassoli, H. Oraizi and B. Abolhassani, A New Eigen Decomposition Based Algorithm for Beamforming in CDMA Communication Systems. IEEE GCC 2006, Bahrain, 19-22 March 2006.

[38 E] H. Oraizi and N. Noori, A Least Square Method for Solving Parabolic Wave Equations with Impedance Boundary Conditions. 14th ICEE 2006, Iranian Conference on Electrical Engineering, Amirkabir Univ Tech, Tehran Iran.

[37 E] N. Noori, H. Oraizi and S. Safavi-Naeini, A New Method for Indoor MIMO Channel Capacity Evaluation, Proc. International Symposium on Telecommunications, IST2005, Shiraz, Iran, September 10-12, 2005, pp 877-880.

[36 E] N. Noori and H. Oraizi, A Parabolic Wave Equation Approach for Modeling Propagation Through Windows. Proc. 3rd International Conference on Computational Electromagnetics and its Applications, Beijing, China, November 1-4, 2004, pp 21-24.

[35 E] H. Oraizi and N. Noori, A New Parabolic Equation Method for Wave Propagation Modeling in Lossy Dielectric Media. 10th International Symposium on Antenna Technology and Applied Electromagnetics, Proc. ANTEM 2004/URSI, Ottawa, ON, Canada, July 20-23, 2004, pp 505-508.

[34 E] H. Oraizi and N. Noori, Parabolic Equation Method for Modeling Indoor Corridor Wave Propagation. 13th Iranian Conference on Electrical Engineering, Zanzan University, Zanzan, Iran, May 10-12, 2005. Proceedings on Communications, pp463-466.

[33 E] H. Oraizi and K. Keyghobad, Phase Response of Microstrip Reflectarray Elements of Variable Size. Proceedings of ISWSN 2005, Dzhahran, Saudi Arabia, December 26-28, 2005.

[32 E] Sh. Hosseinzadeh and H. Oraizi, Network Gain Determination for Coverage Areas Covered by Single Frequency Networks. Proceedings of ISWSN 2005, Dzhahran, Saudi Arabia, December 26-28, 2005.

[31 E] H. Oraizi, K. Keyghobad and Sh. Hosseinzadeh, Application of Lossy Phase Shifters for Microstrip Reflectarray Antennas. Proceedings The 13th Conference on Microwave Techniques, Czech Technical University in Prague, Prague, Czech Republic, September 26-28, 2005, pp 52-55.

[30 E] K. Keyghobad and H. Oraizi, Improvement of the Bandwidth of Microstrip Reflectarray Antenna for Use in Microsatellites. IEEE Antennas and Propagation Society's International Symposium and USNC/CNC/URSI, Columbus, Ohio, USA, June 22-27, 2003.

[29 E] H. Oraizi and K. Keyghobad, Microstrip, Reflectarray Antennas for Use in Satellite Communications. IEEE 12th International Conference on Antennas and Propagation, ICAP 2003, University of Exeter, United Kingdom, 31st March – 3rd April 2003.

[28 E] H. Oraizi and K. Keyghobad, Design and Analysis of a Microstrip Reflectarray Antenna for Use in Microsatellites, PIERS, Singapore, 2003.

[27 E] H. Oraizi, K. Keyghobad and Sh. Hosseinzadeh, Reactive Phase Shifters for Bandwidth Enhancement of Microstrip Reflectarray Antennas. The 17th Asia-Pacific Microwave Conference, APMC'05, Suzhou, China, December 4-7, 2005.

[26 E] K. Keyghobad and H. Oraizi, Microstrip Reflectarray Antennas for Use in Microsatellites, Proceedings on Nordic Antenna Symposium, Antenn 03, Kalma, Sweden, May 13-15, 2003.

[25 E] H. Oraizi and Sh. Hosseinzadeh, Solution of Parabolic Equations by the Least Square Method. Proceedings of the 34th European Microwave Conference, Amsterdam, The Netherlands, 2004.

[24 E] H. Oraizi and Sh. Hosseinzadeh, A New Method for Determination of Propagation Loss in the Presence of Multiple Knife Edges by Parabolic Equation Method, Mediterranean Microwave Symposium, Marseille, France, June 1-3, 2004, Proceedings of MMS², p 31.

[23 E] H. Oraizi and Sh. Hosseinzadeh, Determination of Propagation Loss in the Troposphere with Piece-wise Linear Boundary by Parabolic Equation Method. 2004 International Symposium on Antennas and Propagation, Sendai, Japan, August 17-21, 2004, Proceedings of ISAP₇, pp729-732.

[22 E] H. Oraizi and Sh. Hosseinzadeh, A New Least Square Based Method for the Solution of Parabolic Equations. 2004 International Symposium on Antennas and Propagation, Sendai, Japan, August 17-21, 2004, Proceedings of ISAP₇, pp733-736.

[21 E] H. Oraizi and Sh. Hosseinzadeh, Determination of the Effect of Vegetation on Radiowave Propagation by the Parabolic Equation Method. International Symposium on Telecommunications, Isfahan, Iran, August 16-18, 2003, Proceedings of IST², pp340-344.

[20 E] H. Oraizi and Sh. Hosseinzadeh, Some Interesting Notes on the Modeling of Wave Propagation in the Troposphere Using the Parabolic Equation Method. International Symposium on Telecommunications, Isfahan, Iran, August 16-18, 2003, Proceedings of IST², pp340-344.

[19 E] H. Oraizi and Sh. Hosseinzadeh, The Effect of Atmospheric Duct on Modern OFDM-Based Digital Broadcasting Systems. The 33rd European Microwave Conference , Munich, Germany, 2003, proceedings EUMIC², pp747750.

[18 E] H. Oraizi and Sh. Hosseinzadeh, Determination of Backward Electromagnetic Field Due to Knife-Edge Scattering by Parabolic Equation Method. International Radar Symposium India, Bangalore, India, December 2-5, 2003, Proceedings of IRSI², pp 436-439.

[17 E] Sh. Hosseinzadeh, H. Oraizi and M. Farrokhi, Reconstruction of Permittivity Profile of Dielectric Slabs by Artificial Neural Networks. Mediterranean Microwave Symposium, Caceres, Spain, June 26-28, 2002, Proceedings of MMS-2002, pp CP: 221-224.

[16 E] H. Oraizi and T. Pakizeh, Analysis of E-Plane Strips in Rectangular Waveguides. Mediterranean Microwave Symposium, Caceres, Spain, June 26-28, 2002, Proceedings of MMS-2002, pp CP: 43-46.

[15 E] H. Oraizi and M. Bakhshandeh, Optimum Design of Microstrip Ring Couplers with Arbitrary Power Division and Impedance Matching. Mediterranean Microwave Symposium, Caceres, Spain, June 26-28, 2002, Proceedings of MMS-2002, pp CP: 205-208.

[14 E] H. Oraizi and E. Mokhtab, Analyzing a Dipole Antenna Using Matrix Form of MLS. Mediterranean Microwave Symposium, Caceres, Spain, June 26-28, 2002, Proceedings of MMS-2002, pp CP: 47-50.

[13 E] H. Oraizi and E. Mokhtab, Analyzing a Folded Dipole Antenna Using the Matrix Form of MLS. Mediterranean Microwave Symposium, Caceres, Spain, June 26-28, 2002, Proceedings of MMS-2002, pp CP: 51-54.

[12 E] H. Oraizi and T. Pakizeh, Analysis of E-Plane Metal Strips on a Dielectric Slab in Rectangular Waveguides. 2002 IEEE Canadian Conference on Electrical and Computer

Engineering, Manitoba , Canada, May 12-15, 2002, Proceedings of IEEE CCECE[®], pp 001-006.

[11 E] K. Hirasawa and H. Oraizi, Reactance Loaded Cavity-Backed Square-Loop Slot Antenna for Circular Polarization. International Conference on Electromagnetics in Advanced Applications, Torino, Italy, September 08-12, Proceedings of ICEAA_03, pp

[10 E] H. Oraizi, M. Moradian and K. Hirasawa, Optimum Design of Parallel Coupled-Line Filters. 2004 Ninth IEEE Singapore International Conference on Communication Systems, Singapore, September 6-8, 2004, Proceedings ICCS[®], pp 340-344.

[09 E] H. Oraizi, Solution of the Junction of TE₁₁-Mode Circular Waveguides by the Least Square Method. Progress in Electromagnetics Research Symposium, Nantes, France, July 13-17, 1998, Proceedings of PIERS[®].

[08 E] Sh. Jam and H. Oraizi, Optimization of Tapered Slot Antenna Profile by the Method of Least Squares. Millennium Conference on Antennas and Propagation, AP-2000, Davos, Switzerland, April 9-14, 2000, ESA SP-444 Proceedings (0884).

[07 E] H. Oraizi and A. Hajhosseini-Mesgar, Solution of Hallen and Pocklington Integral Equations for Cylindrical Antennas by the Method of Least Squares. Progress in Electromagnetic Research Symposium, Osaka, Japan, July 18-22, 2001, PIERS[®] Proceedings, p 528.

[06 E] Sh. Jam and H. Oraizi, Analysis of Tapered Slot Antennas by the Method of Least Squares. Progress in Electromagnetic Research Symposium, Osaka, Japan, July 18-22, 2001, PIERS[®] Proceedings, p 529.

[05 E] H. Oraizi and Gh. Gabaranzad-Ghadim, Optimum Design of Broadband Multisection Coupled-Line Couplers with Impedance Matching. Progress in Electromagnetic Research Symposium, Osaka, Japan, July 18-22, 2001, PIERS[®] Proceedings, p 129.

[04 E] A. Cheldavi, H. Oraizi and M. Kamarei, Time Domain Analysis of Transmission Lines. The 25th European Microwave Conference, Bologna, Italy, September 4-8, 1995, the 25th EuMc Proceedings, pp 794-797.

[03 E] H. Oraizi and J. Perini, A Numerical Method for the Solution of Junction of Cylindrical Waveguides. IEEE G-MTT International Symposium, Boulder, Colorado, USA, June 4-6, 1973.

[02 E] H. Oraizi and J. Perini, Non-uniform Transmission Line Synthesis by Least Squares. The 1st Iranian Congress of Electrical and Electronics Engineering, Shiraz University, Shiraz, Iran, May 1974, ICEE Proceedings, pp 1232-1243.

[01 E] H. Oraizi, Selection of a Marine Traffic Control System. The 3rd International Symposium on Marine Traffic Service, Liverpool Polytechnic, England, April 3-6, 1978, ISMTS Proceedings, pp 176-186.

IX- CONFERENCE PAPERS IN FARSI

[53 P] Zahra Mansoori, Alireza Karimi and H. Oraizi, Design, simulation and fabrication of a Bagley 4-way power divider in X band. The International Conference in New Research of Electrical Engineering and Computer Science, Sep 10, 2015, Tehran University, Tehran, Iran.

[52 p] K.Nekoie-Tehrani, E-Ghassemi, F-Aghamohamadi, H. Oraizi, A.Abdolali, F. Hojat-Kashani. Implementation of PEMC boundary Condition for microwave wideband system".pp. 12-15. 1st Iranian Conference on Engineering Electromagnetics 26-27 DEC.2012.

[51 P] H.Oraizi and Sh.Hedayati. "Wide-band monopole antenna with Hilbert Fractal Slots in the ground plane. "pp. 116-119. 1st Iranian Conference on Engineering Electromagnetics 26-27 DEC.2012.

[50 P] h.Oraizi, M. Bahramgiri and Sh.Hedayati. " Miniaturized Omnidirectional dual-band multilayer Fractal E-Shaped Patch antenna. "pp. 124-128. 1st Iranian Conference on Engineering Electromagnetics 26-27 DEC.2012.

[49 P] S.Atashbahar, M.Tayarani, H.Oraizi & S.Bayanloo. "Band-Stop filter with desirable Selectivity at the two ends of the band using DGS."pp. 247-250. 1st Iranian Conference on Engineering Electromagnetics 26-27 DEC.2012.

[48 P] Homayoon Oraizi, Mohammad Amin Chaichizadeh."Implementation of Camouflage, Cloaking and Stealth Technologies"National Conference on Science and Engineering with emphasis on passive defense camouflage, concealment and deception. February 20, 2014. pp. 1-25.

[47 P] M. Afsahi and H. Oraizi, Design of Ultra-wide Band Radar Absorbing Materials using Metamaterials. 5'th Iranian Conference on Electronic Warfare. January 2012, Imam Hossein University, Tehran, Iran.

[46 P] M. Afsahi and H. Oraizi, Design of Two-Band Radoms for Antennas using Metamaterials. The First Conference on Passive Surveyance Systems, 13-14 December 2011, Electrical Engineering Department, Shiraz University.

[45 P] H. Oraizi and F. Karshenas, A Novel Band-stop Biconical Antenna UWB Applications. 19'th Iranian Conference on Electrical Engineering, ICEE2011, 17-19 May 2011, Amirkabir University of Technology, Tehran, Iran.

[44 P] H. Oraizi and A. Abdolali, Application of Metamaterials in Planar Multilayer Structures for the Realization of Zero Reflection. 19'th Iranian Conference on Electrical Engineering, ICEE2011, 17-19 May 2011, Amirkabir University of Technology, Tehran, Iran.

[43 P] H. Oraizi and Sh. Hedayati, Microstrip Antennas with Circular Polarization Combining Square and GiuseppePeano Fractal Geometries for Multiband Applications.

39th Iranian Conference on Electrical Engineering, ICEE2011, 17-19 May 2011, Amirkabir University of Technology, Tehran, Iran.

[42 P] H. Oraizi and A-R Sharifi, Design and Optimization of Multi-Section Two-Way Gysel Power Divider with Arbitrary Unequal Power Division Ratio and Impedance Matching. The 18'th Iranian Conference on Electrical Engineering, 11 through 13 May 2010, Isfahan University of Technology, Isfahan, Iran

[41 P] H. Oraizi, A. Abdolali and N. Vaseghi, Application of DZR Metamaterials for the Design of Absorbing Materials. The 18'th Iranian Conference on Electrical Engineering, 11 through 13 May 2010, Isfahan University of Technology, Isfahan, Iran

[40 P] Sh. Hedayati and H. Oraizi, Miniaturization of Microstrip Antennas Using the Novel Giuseppe Peano Fractal Geometries. The 18'th Iranian Conference on Electrical Engineering, 11 through 13 May 2010, Isfahan University of Technology, Isfahan, Iran

[39 P] H. Oraizi and A. Sharifi, Improvement of the Bandwidth of Two Way Gysel Power Divider. The 17th Iranian Conference on Electrical Engineering, Iran University of Science and Technology, Tehran, Iran, 12-14 May 2009

[38 P] H. Oraizi and E. Forati, A Novel Design for the Realization Active Multiplexers based on the Distributed Amplifiers. The 17th Iranian Conference on Electrical Engineering, Iran University of Science and Technology, Tehran, Iran, 12-14 May 2009

[37 P] M.M. Ghassempouri and H. Oraizi, Investigation of the SAR Distribution Inside the Three Layer Model of Human Head and its Comparison with the IEC 62209-1 Standard. The First Conference on the Effects of Electromagnetic Fields on Live tissues and Electrical and Electronic Equipments, Amir Kabir University of Technology, Tehran, Iran, 28-30 May 2008

[36 P] M.M Ghasempouri and H. Oraizi, Investigation of the Specific Absorption Rate (SAR) in the Three Layer Model of the Human Head and its Comparison with the IEC 62209-1 Standard Model, Electromagnetic Field Effect Symposium, 27-9 May 2008, Amirkabir University of Technology, Tehran, Iran.

[35 P] h. Oraizi and M. Fallahpour, Array Synthesis for Specified Radiated Pattern and Element Input Impedance by Combining Genetic Algorithm and Gradient Algorithms. The 16th Iranian Conference on Electrical Engineering, 13-17 May 2008, Tarbiat Modares University, Tehran, Iran.

[34 P] M. M. Ghassempouri and H. Oraizi. Design and Simulation of Broadband Microstrip Antenna using Shorting Stripes. The 16th Iranian Conference on Electrical Engineering, 13-17 May 2008, Tarbiat Modares University, Tehran, Iran.

[33 P] H. Oraizi and M. Talafi Noghani, Design and Optimization of a Longitudinal Slot Array on a Rectangular Waveguide. The 16th Iranian Conference on Electrical Engineering, 13-17 May 2008, Tarbiat Modares University, Tehran, Iran.

[32 P] M. Kazerouni, A. Cheldavi, H. Oraizi and H. Mohseni-armaki, Design of a Typical Radar Phase Array with EBG and Evaluation of its Performance upon Failure of some of its Radiating Elements. The Fifteenth Iranian Conference on Electrical Engineering, Iran Telecom Research Center, Tehran, 15-17 May 2007, Communications (Fields & Waves) Proceedings, pp 38-44

[31 P] H. Oraizi and B. Ahmadi, Synthesis of Antenna Arrays by the Method of Least Squares and Digital Filter Theory. The Fifteenth Iranian Conference on Electrical Engineering, Iran Telecom Research Center, Tehran, 15-17 May 2007, Communications (Fields & Waves) Proceedings, pp 63-68.

[30 P] H. Oraizi and H. Davoodi, Synthesis of Four Frequency Band Microstrip Antenna for Automobiles. The Fifteenth Iranian Conference on Electrical Engineering, Iran Telecom Research Center, Tehran, 15-17 May 2007 ,Communications (Fields & Waves) Proceedings, pp 158-162.

[29 P] H. Oraizi and M. Afsahi, Analysis of Dielectric Multilayered FSS Structures by the Application of Transmission Line Model. The Fifteenth Iranian Conference on Electrical Engineering, Iran Telecom Research Center, Tehran, 15-17 May 2007 ,Communications (Fields & Waves) Proceedings, pp 152-157.

[28 P] Z Abolhassani and H. Oraizi, Synthesis of Microstrip Arrays with Circular Polarization. The Fifteenth Iranian Conference on Electrical Engineering, Iran Telecom Research Center, Tehran, 15-17 May 2007 ,Communications (Fields & Waves) Proceedings, pp 169-174.

[27 P] H. Oraizi and Sh. Hosseinzadeh, Solution of the Parabolic Partial Differential Equations by the Method of Least Squares, 37th Annual Iranian Mathematics Conference , AIMC 37, Azarbaijan Univ. of Tarbiat Moallem, Tabriz, Iran, 2-3 Sep 2006, pp100-102.

[26 P] H. Oraizi and N. Azadi-Tinat, Design and Optimization of Band-Pass Compline Filters with Impedance Matching. 14th ICEE 2006, Iranian Conference on Electrical Engineering, Amirkabir Univ Tech, Tehran Iran.

[25 P] H. Oraizi and K. Keyghobad, Application of FDTD for Determination of Phase Response of Reflected Waves from Microstrip Reflectarrays. 13th Iranian Conference on Electrical Engineering, 13th ICEE2005, Zanzan University, Zanzan, Iran, May 10-12, 2005, Proceedings on Communications, pp330-335.

[24 P] H. Oraizi and Sh. Hosseinzadeh, Extension of the Validity of Parabolic Equation Method for the Analysis of Radio Wave Propagation over Sloping Earth. 12th Iranian Conference on Electrical Engineering, Ferdowsi University, Mashhad, Iran, Proceedings of the ICEE2004, pp582-587.

[23 P] H. Oraizi and T. Pakizeh, Analysis and Determination of the Equivalent Circuit of E-Plane Fin in Rectangular Waveguides. The 10th Iranian Conference on Electrical Engineering, ICEE¹⁰, University of Tabriz, Tabriz, Iran, May, 2002 Proceedings on Communications, pp 363-373.

[22 P] T. Pakizeh and H. Oraizi, Application of Array Antennas in Mobile Radio.

The Fourth Iranian Student Conference on Electrical Engineering, Tehran University, Tehran, Iran, pp 924-931.

[21 P] H. Oraizi and M. Moradian, A New Microstrip Circuit Configuration for Parallel Coupled-Line Band-Pass Filters for Simultaneous Suppression of 2nd and 3rd Spurious Pass-Bands. The 13th Iranian Conference on Electrical Engineering, Zanzan University, Zanzan, Iran, May 10-12, 2005, The 13th ICEE2005 Proceedings on Communications, pp175-180.

[20 P] H. Oraizi and Sh. Jam, Optimum Design of Tapered Slot Antenna Based on Simulation by the Step-Line Model. The 8th Iranian Conference on Electrical Engineering, Isfahan University of Technology, Isfahan, Iran, May 28-30,2000, 8th ICEE Proceedings on Telecommunications, pp 26-33.

[19 P] Sh. Jam and H. Oraizi, Analysis of Tapered Slot Antenna utilizing the Least Mean Square Method. The 9th Iranian Conference on Electrical Engineering, Power and Water Institute of Technolgy, Tehran, Iran, May 8-10, 2001, 9th ICEE Proceedings on Telecommunication, pp 31-1 to 31-9.

[18 P] H. Oraizi, A Proposed Model for Development of Electronics and Information and Communication Technologies (ICT) in Iran. The First EurAsia Conference on Advances in Information & Communication Technology, Fars International Conference on the Development of Electronics & Information Technology, Shiraz, Iran, October 29-31, 2002, Proceedings pp 69-77.

[17 P] H. Oraizi and Sh. Saeedi, Analysis of the Microstrip Ring Antenna by the Method of Least Squares. The 11th Iranian Conference on Electrical Engineering , Shiraz University, Shiraz, Iran, May 6-8, 2003, the 11th ICEE Proceedings on Communications, pp165-176.

[16 P] H. Oraizi and A. Hajhosseini-Mesgar, Solution of Hallen's Equation for Cylindrical Antennas by the Method of Least Squares. The 9th Iranian Conference on Electrical Engineering, Power and Water Institute of Technology, Tehran, Iran, May 8-10, 2001, 9th ICEE Proceedings on Telecommunication, pp 33-1 to 33-9.

[15 P] H. Oraizi and H. Alamdari, Simulation of Wave Propagation in Urban Environment by Ray Tracing Method. The 10th Iranian Conference on Electrical Engineering, University of Tabria, Tabriz, Iran, May, 2002, the 10th ICEE Proceedings on Communications, pp 1-9.

[14 P] A. Foroozesh, S Babaei and H. Oraizi, Radiation Pattern Synthesis of Arbitrary Antenna Arrays by the Modified Method of Least Squares. The 9th Iranian Conference on Electrical Engineering, Power and Water Institute of Technology, Tehran, Iran, May 8-10, 2001, the 9th ICEE Proceedings on Communications, pp34-1to 34-8.

[13 P] H. Oraizi and S. Taghaddosi, Design and Fabrication of Microstrip Impedance Transformers by the Method of Least Squares. The 8th Iranian Conference on Electrical Engineering , Isfahan University of Technology, Isfahan, Iran, May 18-20, 2000, the 8th ICEE Proceedings on Communications, pp 104-115.

[12 P] H. Oraizi, A. Falahati and S. Erfanian, Analysis, Design and Fabrication of an Antenna for Base Transceiver Station (BTS). The 7th Iranian Conference on Electrical Engineering, Iran Telecommunication Research Center, Tehran, Iran, May 17-19, 1999, Proceedings on Telecommunication, pp69-75.

[11 P] H. Oraizi, M. Aghajani and H. Farhadi, Determination of the Initial Size of Cells in Mobile Cellular Communication. The 7th Iranian Conference on Electrical Engineering, Iran Telecommunication Research Center, Tehran, Iran, May, 17-19, 1999, Proceedings on Telecommunication, pp 1-8.

[10 P] H. Oraizi, Least Square Solution for the Junction of TE₁₁-Mode Circular Waveguides. The 6th Iranian Conference on Electrical Engineering, K. N. Toosi University of Technology, Tehran, Iran, May 12-14, 1998, Proceedings on Telecommunication, pp 149-2 to 149-155-2.

[09 P] H. Oraizi and M. Behdad, Computation of Rain Attenuation at Microwave Frequencies and Determination of its Statistical Diagrams for Several Iranian Cities. The 6th Iranian Conference on Electrical Engineering, K. N. Toosi University of Technology, Tehran, Iran, May 12-14, 1998, Proceedings on Telecommunication, pp 2-189 to 2-197.

[08 P] H. Oraizi, Optimum Design of Multi-hole Directional Couplers with Arbitrary Aperture Spacing. The 5th Iranian Conference on Electrical Engineering, Sharif University of Technology, Tehran, Iran, May 7-9, 1997, Proceedings on Telecommunication, pp-5-256 to 5-263.

[07 P] H. Oraizi, Design of Complex Impedance Step-line Transformers by the Method of Least Squares. The 4th Iranian Conference on Electrical Engineering, Tehran University, Tehran, Iran, May 13-16, 1996, Proceedings on Telecommunication, pp 190-197.

[06 P] H. Oraizi, M. Soleimani and M. Abaie, Computer Simulation of Radio Wave Propagation in Urban Areas. The 4th Iranian Conference on Electrical Engineering, Tehran University, Tehran, Iran, May 13-16, 1996, Proceedings on Electrical Engineering, pp 101-109.

[05 P] H. Oraizi, Education of Future Engineers. The 3rd Iranian Conference on Electrical Engineering, Iran University of Science and Technology, Tehran, Iran, May 13-15, 1995, Proceedings on Education in Engineering, pp 17-41.

[04 P] H. Oraizi, Design of Real Impedance Transformers by the Method of Least Squares. The 3rd Iranian Conference on Electrical Engineering, Iran University of Science and Technology, Tehran, Iran, May 13-15, 1995, Proceedings on Telecommunication, pp 471-484.

[03 P] A. Cheldavi, M. Kamarei and H. Oraizi, Simulation of Step-line Transmission Lines by the Time Discrete Filters. The 3rd Iranian Conference on Electrical Engineering, Iran University of Science and Technology, Tehran, Iran, May 13-15, 1995, Proceedings on Telecommunication, pp 493-507.

[02 P] A. Cheldavi, M. Kamarei and H. Oraizi, Analysis of Transmission Lines with Random Inputs and Nonlinear Loads. The 3rd Iranian Conference on Electrical Engineering, Iran University of Science and Technology, Tehran, Iran, May 13-15, 1995, Proceedings on Telecommunication, pp 518-526.

[01 P] H. Oraizi, Description of the Incandescent Lamp and the Method of its Manufacturing. The 1st Seminar on the Research and Development for Self-sufficiency in Lamp Industries and Illumination, Ministry of Industries, Tehran, Iran, January 29-30, 1988, Proceedings pp18-45.

X- JOURNAL PAPERS WRITTEN IN PERSIAN

[17 P] H. Oraizi, O. Salamikenari and M. Chaichizadeh, Optimization and bandwidth enhancement of SIW branchline coupler by the method of least squares. Journal of Iranian Association of Electrical and Electronics Engineers

[16 P] H. Oraizi and A. Abdolali, Exact Analysis of the Application of Metamaterials in Planar Multilayer Structures for Zero Reflection. Under Submission

[15 P] H. Oraizi and A. Abdolali, Analysis of Electromagnetic Wave Scattering by Multilayered Cylindrical Structures Composed of Common Materials and Metamaterials. Under Submission.

[14 P] H. Oraizi "Review of the Application of Conjugate Gradient Method for the Linear Systems in Electromagnetic Engineering" Journal of Communication Engineering. , Vol. 1, No.1 pp 1-11, Autumn 2011.

[13 P] H. Oraizi and Sh. Hosseinzadeh, Solution of Parabolic Equations by the Method of Least Squares and the Second Order Spline Expansion Functions. Journal of Engineering College, Tabriz University, Vol 34, pp 15-22, Spring 2007.

- [12 P] H. Oraizi, K. Keyghobad and Sh. Hosseinzadeh, New Phase Shifters Microstrip Reflectarray Antennas. Iranian Journal of Electrical and Computer Engineering, Vol. 4, No. 1, pp 37-44, Spring and Summer 2006.
- [11 P] N. Noori and H. Oraizi, Simulation of the Radio Wave Propagation through Window Structures by the Parabolic Equation Method. Iranian Journal of Electrical and Computer Engineering, Vol. 5, No.1, pp 19-25, Spring 2007.
- [10 P] N. Noori and H. Oraizi, Application of the Parabolic Equation Method to Indoor Propagation Problems. Journal of Technical College, Tehran University, No.7, Vol. 42, January 2009, pp 879-890.
- [9 P] H. Oraizi and Sh. Hosseinzadeh, Analysis of Radio Wave Propagation in the Troposphere over Sloping Surfaces by the Parabolic Equation Method. Journal of the Iranian Association of Electrical and Electronics Engineers, Vol.2, No.1, pp 31-40, Spring and Summer 2005.
- [8 P] H. Oraizi and T. Pakizeh, Analysis and Determination of the Equivalent Circuit of E-Plane Metallic Strips in Rectangular Waveguides. Journal of the Technical College of Tabriz University, Vol. 29, No. 1, (Electrical Engineering), Spring and Summer 2003, pp 49-58.
- [7 P] H. Oraizi, Application of the Method of Least Squares for the Analysis and Synthesis of Problems in Electromagnetics. Technical and Engineering Journal of Modarres, no. 6, Spring 2002, pp 13-34.
- [6 P] H. Oraizi and R. Khalili, Analysis of the Junction of Cylindrical Waveguides of Arbitrary Cross-Section by the Method of Least Squares. International Journal of Engineering Sciences, Iran University of Science and Technology, Vol.12, No. 4, Winter 2001, pp131-146.
- [5 P] h. Oraizi and J. Hamedfar, Optimum Design of Branch-Line Couplers with Impedance Matching. Iranian Journal of Electrical and Computer Engineering, Vol. 1, No. 1, Spring and Summer 2003.
- [4 P] H. Oraizi, An Effective Educational Program for Bachelor Degree in Electrical Engineering. Iranian Journal of Engineering Education, Engineering Sciences Group, Iranian Academy of Sciences, Vol. 2, No. 1, Spring 2000, pp101-118
- [03 P] H. Oraizi, Mode Matching in Microwave Discontinuity Problems by the Method of Least Squares. Journal of the Technical College, Tehran University, December 1974, pp16-33.
- [02 P] H. Oraizi, The Educational Program of Electrical Engineering and the Training Requirements of Industries in Iran. Journal of the Electrical Engineering Department of Ferdowsi University of Mashhad, Autumn 1989, pp3-14.

[01 P] H. Oraizi, How to Study University Courses. Scientist Journal, Tehran, Volumes of September 1974 and October 1974.

XI- BOOKS

1. Impedance Matching and BALUNs, Chapter in Handbook of Antenna Technologies, Editor Chen, Springer
2. Electromagnetics (Authored in Persian)
Volume 1, Electrostatics, (1992), 2nd Edition 2001
Volume 2, Magnetostatics, (1993), 2nd Edition 2005
3. Fields and Waves, (Authored in Persian), 2nd Edition 2006
4. Time-Harmonic Electromagnetic Fields (Translated into Persian), (1999)
5. Antenna Theory and Design, (Translated into Persian), (1995), 3rd Edition
6. Bulletin of the College of Electrical Engineering, (Authored in English), (1995), Iran University of Science and Technology (IUST)
7. Catalog of the College of Electrical Engineering, (Authored in English), (2004), Iran University of Science and Technology (IUST)
8. Solution of Electromagnetic Problems (Authored in Persian), (1999), IUST
9. Class Notes on Microwaves (Authored in Persian)
10. Class Notes on Electrostatics (Authored in Persian)
11. Understanding Islam, Authored by Frithjof Schuon, (Translation from English) 1989
12. Radio Propagation in Cellular Networks, (Translation, with Dr. Noori), 2009

XII-PHD STUDENTS

۱. Shahrokh Jam, Graduated
۲. Shahram Hosseinzadeh, Graduated
۳. Kiyan Keyghobad, Graduated

۴. Nargess Noori, Graduated
۵. Majid Afsahi, Graduated
۶. Abdolaali, Graduated
۷. Alireza Sharifi, Graduated
۸. Nima Azadi-Tinat, Graduated
۹. Reza Pazouki, Graduated
۱۰. Bahram Rezaie, Research in Progress
۱۱. Fardad Karshenas, Research in Progress
۱۲. Shahram Hedayati, Research in Progress
۱۳. Saeed Fakhte, Graduated
۱۴. Alireza Bostani, Graduated
۱۵. Mohammad Alian, Graduated
۱۶. Hadi Soleimani, Graduated
۱۷. Batul Bahraini, Graduated
۱۸. Amrollah Amini, Graduated
۱۹. Parinaz Hosseini, Research in Progress
۲۰. Marziyeh Nasri, Educational phase

XIII- 32 M.S. theses supervised and completed since 2005

XIV- More than 80 B.Sc. projects supervised and completed.

XV- TECHNICAL REPORTS

1. M. Sc. Thesis: Some Considerations in the Solution of Polynomial Equations. TR-69-2, Syracuse University, Syracuse, NY, June 1969.

2. PH.D. Dissertation: A Numerical Method for the Solution of Junction of Cylindrical Waveguides. TR-73-8, Syracuse University, Syracuse, NY, USA, August 1973.
3. The Reliability Study for Communication Systems, Iran Electronics Industries (IEI), Shiraz, Iran, March 1975
4. Description of the Computer Program for the Design and Evaluation of Performance of HF Communication Systems, IEI, June 1975
5. Determination of Repeater Sites for VHF Vehicular Communication System Applied to Roads Tehran-Amol, Tehran-Chalus and Tehran-Rasht, IEI, September 1975.
6. Mobile Radio Communication – Coverage of Three Main Roads from Tehran to the Caspian Sea, December 1975
7. The Procedures for Measurements of the Characteristics of HF/VHF/UHF Transmitters and Receivers, IEI, 1983.
8. Design and Optimization of Impedance Transformers by the Method of Least Squares. Final Report Submitted to the Research Office of Iran University of Science and Technology, Volumes 1 and 2, July 1995.
9. Analysis of the Junction of Cylindrical Waveguides by the Method of Least Squares. Final Report Submitted to the Research Office of Iran University of Science and Technology, November 1997.
10. Optimum Design of Multi-Hole Directional Couplers by the Method of Least Squares. Final Report Submitted to the Research Office of Iran University of Science and Technology, September 1999.
11. Optimum Design, Fabrication and Measurement of Coupled-Line Couplers and Branch-Line Couplers. Final Report Submitted to the Research Office of Iran University of Science and Technology, June 2001.
12. Measurement of the Effective Earth Radius (the K Factor). Final Report Submitted to the Ministry of Telecommunication and Information Technology, October 2001.
13. Analysis of Wire Antennas, E-Plane Fins in Rectangular Waveguides and Ring Couplers by the Method of Least Squares. Final Report Submitted to the Research Office of Iran University of Science and Technology, May 2002.
14. Optimum Design, Fabrication and Measurement of Microstrip Parallel Coupled-Line Filters and Wilkinson Power Dividers. Final Report Submitted to the Research Office of Iran University of Science and Technology, July 2004.

15. Design, Optimization, Fabrication and Measurement of Microstrip Comblines

Band-pass Filters. Final Report Submitted to the Research Office of Iran University of Science and Technology, September 2006.

16. Analysis of Multilayered FSS Structures by the Transmission Line Model.

Final Report Submitted to the Research Office of Iran University of Science and Technology, September 2007.

CONFERENCE PAPERS IN ENGLISH

[124E] H. Oraizi and R. Tirandaz, Design of a novel miniaturized planar structure for the realization of artificial magnetic conductors, *23rd Iranian Conference on Electrical Engineering*, May 10-14, 2015, Sharif University of Technology, Tehran, Iran.

[123E] H. Oraizi and Sh. Hedayati, Application of Z-type and Hilbert Fractal Structures for Multiband and Circularly Polarized Microstrip Antennas. *Mediterranean Microwave Symposium, 15'th MMS*, 30 Nov-2 Dec 2015, Lecce, Italy.

[122E] A. Farahbakhsh, M. Khalaj-Amirhosseini and H. Oraizi, Ellipsoid Anechoic Chamber for Radiation Pattern Measurements. *Mediterranean Microwave Symposium, 15'th MMS*, 30 Nov-2 Dec 2015, Lecce, Italy.

[121E] D. Zarifi and H. Oraizi, Electromagnetic Characterization of Inhomogeneous Chiral Media Using the State Space Method. *Mediterranean Microwave Symposium, 15'th MMS*, 30 Nov-2 Dec 2015, Lecce, Italy.

[120E] H. Oraizi and Sh. Hedayati, Microstrip multiband fractal dipole antennas using the combination of Sierpinski, Hilbert and Giuseppe Peano fractals. *14'th Mediterranean Microwave Symposium (MMS)*, 12-14 Dec 2014, Marrakech, Morocco.

[119E] A. Lak and H. Oraizi, Interaction of the human head and electromagnetic waves from a dipole antenna. *2nd Iranian Conference on Bio-electromagnetism, Tehran University*, Tehran, Iran, 18-20 December 2013.

[118E] H. Oraizi and M.A. Chaichizadeh, Methods of implementation of stealth, cloaking and radar invisibility. *Seminar on Civil Defense in Science and Engineering, Emam Hossein University, Tehran, Iran, 19 February 2013.*

[117E] H.Oraizi and Sh. Hedayati, A Novel Wide Slot Antenna Design using the Giuseppe Peano Fractal Geometry. *20'th Iranian Conference on Electrical Engineering, Proc ICEEE* pp 1058-1061, Tehran University, Tehran, Iran,

[116E] H. Oraizi and M. Afsahi, Design of UWB radar absorbing materials made of metamaterials. *5'th Iranian Conference on Electronic Warfare, Emam Hossein University, Tehran, Iran, January 2012, ICEW Proc.* pp 1-7.

[115E] H. Oraizi and M. Zoughi, Wide Band Harmonic Suppression Bandpass Filters Using Coupled Open- and Short-ended Resonators. *Progress In Electromagnetics Research Symposium, Kuala Lumpur, MALAYSIA, March 27-30, 2012, PIERS Proc.* pp 292

[114E] M. Afsahi and H. Oraizi, Design of dual-band antenna radome using metamaterials. *First Conference on Passive Observation Systems, Shiraz University, Shiraz, Iran, 14-15 December 2011, proc.* pp 1-6

[113E] K. Nikoei-Tehrani, E. Ghasemi, F. Aghamohammadi, H. Oraizi, A. Abdolali and F. Hodjat-Kashani, Implementation of PEMC boundary condition for UWB systems at microwave frequencies. *The First Iranian Conference on Engineering Electromagnetics, ICEEM, January 2012, Iran University of Science and Technology, Tehran, Iran, pp 12-15*

[112E] S. Atashbahar, M. Tayarani, H. Oraizi and S. Bianlo, Stop band filter with desirable selectivity at its two frequency limits using DGS. *The First Iranian Conference on Engineering Electromagnetics, ICEEM, January 2012, Iran University of Science and Technology, Tehran, Iran, pp 247-250*

[111E] H. Oraizi, M Bahramgiri and Sh. Hedayati, Miniaturized multi-layer dual-band fractal E-shaped patch antenna with omnidirectional pattern. *The First Iranian Conference on Engineering Electromagnetics, ICEEM, January 2012, Iran University of Science and Technology, Tehran, Iran, pp 124-128.*

[110E] H. Oraizi and Sh. Hedayati, A UWB monopole fractal antenna with the Hilbert fractal slots in the ground plane. *The First Iranian Conference on Engineering Electromagnetics, ICEEM, January 2012, Iran University of Science and Technology, Tehran, Iran, pp 116-119.*

[109E] H. Oraizi and Sh. Hedayati, Microstrip Slot Antenna using the Novel Application of Giuseppe Peano Fractal and CPW Feed. *8th European Conference on Antennas and Propagation*, 6-11 April 2014, The Hague, The Netherlands.

[108E] H. Oraizi and Sh. Hedayati, Analysis of Coupling in an Array Composed of Patches Having Giuseppe Peano Fractal Boundaries. *8th European Conference on Antennas and Propagation*, 6-11 April 2014, The Hague, The Netherlands.

[107E] A Shamsafar, E. Abaei, H. Oraizi and E. Arneri, Optimum Design of a Novel Multi-section Wide-band Phase Shifter for Phased Array Antenna Beam Forming Network. *8th European Conference on Antennas and Propagation*, 6-11 April 2014, The Hague, The Netherlands.

[106E] H.Oraizi. "Application of the Method of Least Squares to Electromagnetic." ASEPE-2012. The 1st Asian Conference on Applied Electromagnetics & wave Optics.4-6 December, Tabriz, Iran.

[105E] Azarbar, Ali, Mahmoud Sharafi Masouleh, Amin Kargar Behbahani, and Homayoun Oraizi. "Comparison of different designs of cylindrical printed quadrifilar Helix antennas." In Computer and Communication Engineering (ICCCE), 2012 International Conference on, pp. 18-21. IEEE, 2012.

[104E] Davoud Zarifi, Homayoon Oraizi, and Mohammad Soleimani "Oblique Incidence of Plane Waves on PEC, PMC or PEMC Backed Inhomogeneous Chiral Slabs" In Mediterranean Microwave Symposium (MMS), 2012.

[103E] Oraizi, Homayoon, and Seyyed Hamzeh Hashemi. "Design of a non-Foster impedance matching network for electrically small antennas." In Mediterranean Microwave Symposium (MMS), 2013 13th, pp. 1-4. IEEE, 2013.

[102E] Oraizi, Homayoon, Mojtaba Bahramgiri, and Shahram Hedayati. "A novel miniaturized multilayer E-shaped patch antenna using Giuseppe Peano fractal geometry on its edges for WLAN dual-band applications." In Electrical Engineering (ICEE), 2013 21st Iranian Conference on, pp. 1-4. IEEE, 2013.

[101E] Emamimeybodi, Seyed Mohammad, and Homayoon Oraizi. "Mutual coupling reduction in microstrip patch antenna arrays by using planar EBG structure in X band." In Electrical Engineering (ICEE), 2013 21st Iranian Conference on, pp. 1-5. IEEE, 2013.

[100E] Zarifi, Davoud, Homayoon Oraizi, Mohammad Soleimani, and Ali Abdolali. "Analysis of reflection and transmission from biaxial chiral slabs using the state space

approach." In Mediterranean Microwave Symposium (MMS), 2013 13th, pp. 1-4. IEEE, 2013.

[99 E] Oraizi, H., Hamidkhani, M., Hedayati, S., Miniaturized ultra-wideband circular metallic plate antenna suspended by shorting pins, Microwave Symposium (MMS), 2014 14th Mediterranean, Marakesh, Morocco.

[98 E] A. Abdolali, H. Oraizi, S Hashemi, A. Mohtadi and N. Vaseghi, H. Mirzaei and M. Aghajani, The Physical Interpretation of Complex Angles of Refraction in DZR Metamaterials. Progress in Electromagnetics Research Symposium, PIERS2012, March 27-30, 2012, Kuala Lumpur, Malaysia.

[97 E] H. Oraizi and Zoughi, Wideband Harmonic Suppression Bandpass Filters using Coupled Open- and Short-ended Resonators. Progress in Electromagnetics Research Symposium, PIERS2012, March 27-30, 2012, Kuala Lumpur, Malaysia.

[96 E] H. Oraizi and Sh. Hedayati, Circularly Polarized Multiband Microstrip Antenna using the Combination of Novel Fractals. Progress in Electromagnetics Research Symposium, PIERS2012, March 27-30, 2012, Kuala Lumpur, Malaysia.

[[95 E] M. Mehrparvar, o. Hoseini-Izadi and H. Oraizi, Design of Microstrip Spiral Antenna using Genetic Algorithm. Sixth International Symposium on Telecommunication, IST2012, 6-8 November 2012, Information and Communication Technology Research Institute, Tehran, Iran.

[94 E] H. Oraizi and Sh. Hedayati, A Novel Wideband Slot Antenna Design using the Giuseppe Peano Geometry. 20'th Iranian Conference on Electrical Engineering, ICEE2012, 15-17 May 2012, Tehran University, Iran.

[93 E] H. Oraizi and M Moghani, Optimum Design of a Novel Six-Port Power Divider with Variable Output Power Division Ratios. 12'th Mediterranean Microwave Symposium, MMS2012, 2-5 September 2012, Dgus University, Istanbul, Turkey.

[92 E] H. Oraizi and Seyede Yalda Torabi, Novel Application of a new Metamaterial Complementary Electric LC Resonator (CELCR) for the Design of Miniaturized Sharp Bandpass Filters. 12'th Mediterranean Microwave Symposium, MMS2012, 2-5 September 2012, Dgus University, Istanbul, Turkey.

[91 E] D. Zarifi, H. Oraizi and M. Soleimani, Analysis of PEC, PMC and PEMC Backed Inhomogeneous Planar Layered Chiral Media. 12'th Mediterranean Microwave Symposium, MMS2012, 2-5 September 2012, Dgus University, Istanbul, Turkey.

[90 E] M. Mehrparvar, O. Hoseini-Izadi and H. Oraizi, Design of Microstrip Spiral Antenna Using Genetic Algorithm. 11th Mediterranean Microwave Symposium, MMS², 08-10 September 2011, Hammamet, Tunisia.

[89 E] A. Lak and H. Oraizi, Simulation and Evaluation of Specific Absorption Rate in Human Body at High Frequency Electromagnetic Fields. The 2011 International Conference on Mechanical and Aerospace Engineering, ICMAE 2011, 29-31 July 2011, Bangkok, Thailand

[88 E] H. Oraizi and M. Hamidkhani, Design of Miniaturized Multi-band Microstrip Antennas with Helical Slot Patterns on Patches. European Microwave Conference, EuMC 2011, 9-14 October 2011, Manchester, United Kingdom.

[87 E] H. Oraizi and Sh. Hedayati, Wideband Monopole Fractal Antenna with Hilbert Fractal Slot Patterned Ground Plane. European Microwave Conference, EuMC 2011, 9-14 October 2011, Manchester, United Kingdom.

[86 E] H. Oraizi and Sh. Hedayati, Combined Fractal Geometries for the Design of Wide Band Microstrip Antennas with Circular Polarization. Progress In Electromagnetics Research Symposium, PIERS 2011, 12-16 September 2011, Suzhou, China.

[85 E] H. Oraizi and M. Hamidkhani, Miniaturized Ultra-wideband Circular Metallic Plate Antenna Suspended by Shorting Pins. Progress In Electromagnetics Research Symposium, PIERS 2011, 12-16 September 2011, Suzhou, China.

[84 E] H. Oraizi and Sh. Hedayati, Wide Band Antenna Design by the Stacked Koch Fractal Structures. Progress In Electromagnetics Research Symposium, PIERS 2011, 12-16 September 2011, Suzhou, China.

[83 E] Gh. Mahmoudi, H. Oraizi, K. Malekzadeh, and M. T. Noghani, Design Optimization and VSWR Improvement of a Standing Wave longitudinal Slot Array on a Rectangular Waveguide. 19th Iranian Conference on Electrical Engineering, ICEE2011, 17-19 May 2011, Amirkabir University of Technology, Tehran, Iran.

[82 E] H. Oraizi and Sh. Hedayati, Application of Lebesgue Fractal Structures for Multiband and Circularly Polarized Microstrip Antennas. Asia Pacific Microwave Conference, APMC², 7-17 Oct 2010, Pacifico Yokohama, Japan.

[81 E] H. Oraizi and M. Hamidkhani, Wide-Band Microstrip Patch Antennas Using Parasitic Elements and Defected Ground Structures on Different Substrates. The 1st Middle East Conference for Antennas and Propagation, MECAP², 20-22 Oct 2010, Cairo, Egypt

[80 E] S. Hashemi, A. Mohtadi, A. Abdolali and H. Oraizi, Metamaterial Hat. Progress in Electromagnetics Research Symposium, PIERS[®], 5-8 July 2010, Cambridge, Massachusetts, USA

[79 E] H. Oraizi, A. Abdolali and N. Vaseghi, Zero Reflection from a PEC Plate Coated by Double Zero (DZR) Metamaterials. Progress in Electromagnetics Research Symposium, PIERS[®], 5-8 July 2010, Cambridge, Massachusetts, USA

[78 E] H. Oraizi and M. Hamidkhani, A Novel Feeding System for the Design of Ultra-Wideband Miniaturized Microstrip Patch Antenna. The 40th European Microwave Conference, EuMC[®], 26 Sep through 1 Oct 2010, CNIT, Paris, France

[77 E] H. Oraizi and B. Rezaei, Microstrip Ring Antenna on Grooved Substrate for the Enhancement of Radiation Efficiency. 10th Mediterranean Microwave Symposium, MMS[®], 25-27 August 2010, Middle East Technical University, Guzelyurt, Northern Cyprus

[76 E] H. Oraizi and E. Forati, Adjustment of Resonant Frequency of Rectangular Patch Antennas by Placing Metallic walls or Vias Adjacent to their Edges. 10th Mediterranean Microwave Symposium, MMS[®], 25-27 August 2010, Middle East Technical University, Guzelyurt, Northern Cyprus

[75 E] H. Oraizi and M. Hamidkhani, Dual-band Microstrip Notch Filters Using Slotted Square Patch Resonators. 10th Mediterranean Microwave Symposium, MMS[®], 25-27 August 2010, Middle East Technical University, Guzelyurt, Northern Cyprus

[74 E] H. Oraizi and Sh. Hedayati, Combined Fractal Geometries for the Design of Wideband Microstrip Antennas with Circular Polarization, 10th Mediterranean Microwave Symposium, MMS[®], 25-27 August 2010, Middle East Technical University, Guzelyurt, Northern Cyprus

[73 E] H. Oraizi and Seyyed Amir Ayati, Optimum Design of a Modified 3-Way Bagley Rectangular Power Divider. 10th Mediterranean Microwave Symposium, MMS[®], 25-27 August 2010, Middle East Technical University, Guzelyurt, Northern Cyprus

[72 E] H. Oraizi, A. Abdolali and N. Vaseghi, Introduction of a New Class of Materials Called Double Zero Media Having the Real Parts of Epsilon and MU Equal to Zero. Progress in Electromagnetic Symposium, PIERS 2009, August 18-21, 2009, Moscow State Institute of Radio Engineering, Electronics and Automation, Moscow, Russia.

[71 E] H. Oraizi and A. Shamsafar, Design and Optimization of Wideband Multi-section Coupled-Line Phase Shifters with Impedance Matching. Progress in Electromagnetic

Symposium, PIERS 2009, August 18-21, 2009, Moscow State Institute of Radio Engineering, Electronics and Automation, Moscow, Russia.

[70 E] H. Oraizi and M. Seyyed Esfahlan, Optimum Design of Low Pass Filters for General LC Network Configurations by the Method of Least Squares. Progress in Electromagnetic Symposium, PIERS 2009, August 18-21, 2009, Moscow State Institute of Radio Engineering, Electronics and Automation, Moscow, Russia.

[69 E] H. Oraizi and A. Abdolali, A Theorem for the Reflection and Transmission of Electromagnetic Waves from a Slab Made of Common Materials and Metamaterials.

Progress in Electromagnetic Symposium, PIERS 2009, August 18-21, 2009, Moscow State Institute of Radio Engineering, Electronics and Automation, Moscow, Russia.

[68 E] A. Abdolali, H. Oraizi and A. Tavakoli, Ultra Wide Band Absorbing Materials, Progress in Electromagnetic Symposium, PIERS 2009, August 18-21, 2009, Moscow State Institute of Radio Engineering, Electronics and Automation, Moscow, Russia.

[67 E] H. Oraizi and A. Shamsafar, Optimum Design of Broadband Coupled-Line Phase Shifters Incorporating Impedance Matching of Source and Load Impedances. 2009 International Conference on Advances in Computational Tools for Engineering, ACTEA 2009, 15-17 July 2009, Notre Dame University, Beirut, Lebanon.

[66 E] H. Oraizi and A. Shamsafar, Optimum Design of Broadband Schiffman Phase Shifters Incorporating Load and Source Impedance Matching. 2009 International Conference on Advances in Computational Tools for Engineering, ACTEA 2009, 15-17 July 2009, Notre Dame University, Beirut, Lebanon.

[65 E] H. Oraizi, E. Forati and M. Seyyed Esfahlan, A Novel Topology for the Implementation of Active Distributed Multiplexers. The 19th European Conference on Circuit Theory and Design 2009, ECCTD²⁰⁰⁹, 23-27 August 2009, Antalya, Turkey.

[64 E] H. Oraizi, M. Seyyed Esfahlan and E. Forati, Design of Stepped-Impedance Low Pass Filters with Impedance Matching by the Particle Swarm optimization and Conjugate Gradient Method. The 19th European Conference on Circuit Theory and Design 2009, ECCTD²⁰⁰⁹, 23-27 August 2009, Antalya, Turkey.

[63 E] H. Oraizi and M. T. Noghani, Design and Optimization of Waveguide-Fed Nonuniform Transverse Slot Arrays. 39th European Microwave Conference, EuMC 2009, Rome Italy, 28 Sep – 2 Oct 2009

[62 E] M. Naghshvarian-Jahromi and H. Oraizi, Fan-Beam Reflector Back Array Antenna for V-Band WLAN Application. Asia Pacific Microwave Conference, APMC 2009.

[61 E] K. Keyghobad, H. Oraizi, Phase Response of Microstrip Reflectarray Elements by FDTD Analysis, Computational Electromagnetics in Time-Domain, 15-17 October 2007. CEM-TD 2007. 7th Workshop on, Perugia, Italy

[60 E] H. Oraizi and M. Talafi Noghani, Design and Optimization of Linear and Planar Slot Arrays on Rectangular Waveguides. European Microwave Conference (EUMC2008), 27-31 October 2008, Amsterdam, The Netherlands.

[59 E] H. Oraizi and A. Abdolali, An Exact Mathematical Proof for the Condition of Zero Reflection by Multilayered Metamaterial Media. International Conference on Recent Advances in Microwave Theory and Applications, Jaipur, India, 21-23 November 2008.

[58 E] h. Oraizi and M. Fallahpour, Array Pattern Synthesis with Mutual Coupling Consideration. International Symposium on Telecommunication, IST2008, Tehran, Iran

[57 E] Ch. Saeidi, M. Mohammadi and H. Oraizi, Cross Polarization Reduction by Defected Ground Structures for a Rectangular Microstrip Patch Antenna. Mediterranean Microwave Symposium, MMS2008, 14-16 October 2008, Damascus, Syria.

[56 E] H. Oraizi and M. Fallahpour, Array Pattern Synthesis with Input Impedance Matching, Mediterranean Microwave Symposium, MMS2008, 14-16 October 2008, Damascus, Syria.

[55 E] H. Oraizi and A. Abdolali, Analytical Determination of Zero Reflection Conditions for Oblique Incidence on Multilayer Planar Structures. Mediterranean Microwave Symposium, MMS2008, 14-16 October 2008, Damascus, Syria.

[54 E] H. Oraizi and Afsahi, Simulation of wave propagation in bulk inhomogeneous metamaterials by new transmission line formulation. Mediterranean Microwave Symposium, MMS2008, 14-16 October 2008, Damascus, Syria.

[53 E] H. Oraizi and Shamsafar, Application of DGS in the Design of Coupled-Line Couplers.

Mediterranean Microwave Symposium, MMS2008, 14-16 October 2008, Damascus, Syria.

[52 E] A. Baharlouei, B. Abolhassani and H. Oraizi, Space-Time Adaptive Processing in ESPAR Antenna and Adaptive Arrays in CDMA Systems: A Comparison. 2007 IEEE Sarnoff Symposium, April 30- May 2, 2007. Princeton, New Jersey, USA.

[51 E] H. Oraizi, N. Azadi-tinat and Sh. Saeedi, Design and Optimization of Microstrip Interdigital Bandpass Filters with Impedance Matching. Progress in Electromagnetic Research Symposium, PIERS 2008, Hangzhou, China, March 24-28, 2008.

[50 E] H. Oraizi and M. Afsahi, Lossless DNG-DPS Bilayer Structures for Tunneling and Zero Reflection. Progress in Electromagnetic Research Symposium, PIERS 2008, Hangzhou, China, March 24-28, 2008.

[49 E] H. Oraizi and H. Nemati, A New Simple Technique for Suppression of the Spurious Response at Twice the Passband Frequency. Progress in Electromagnetic Research Symposium, PIERS 2008, Hangzhou, China, March 24-28, 2008.

[48 E] H. Oraizi and M Afsahi, Determination of Correct Values for Propagation Constant, Intrinsic Impedance and Reflection Index of Metamaterials. IEEE Applied Electromagnetic Conference, AEMC 2007, December 19-20, 2007 Kolkata, India.

[47 E] H. Oraizi and N. Azadi-Tinat, A Novel Method for the Design and Optimization of Microstrip Multi-section Bandpass Compline Filters, 36th European Microwave Conference, EUMC 2006, 11-15 Sep 2006, GMEX/MICC, Manchester, UK.

[46 E] H. Oraizi and N. Azadi-Tinat, A Novel Method for the Design and Optimization of Microstrip Compline Filters with Tapped-Line Inputs, Mediterranean Microwave Symposium, MMS 2006, Genoa, Italy, 19-21-Sep 2006.

[45 E] H. Oraizi and N. Azadi-Tinat, Realization of Transmission Zeros for the Improvement of the Transition Bands of Compline Filters by Lumped Capacitors, Mediterranean Microwave Symposium, MMS 2006, Genoa, Italy, 19-21 Sep 2006.

[44 E] F. Tavassoli, B. Abolhassani, and H. Oraizi, A Simple Adaptive Beamforming Algorithm for CDMA Wireless Communication Systems. The 17th Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC'06), Finlandi Hall, Helsinki, Finland, 11-14 September 2006.

[43 E] F. Tavassoli, H. Oraizi and B Abolhassani, A New Rayleigh Quotient Based Beamforming Method for CDMA Communication Systems, 65th IEEE VTC Conference, Dublin, Ireland, 23-25 April 2007.

[42 E] H. Oraizi and K. Keyghobad, FDTD Analysis for Phase Response of Microstrip Reflectarray Elements of Variable Size. LAPC 2006 Loughborough Antennas and Propagation Conference, U.K.

Subway Tunnels. ISAP 2005, Seoul, Korea, August, 2005.

[41 E] N. Noori S. Safavi-Naeini and H. Oraizi, A New Three-Dimensional Vector Parabolic Equation Approach for Modeling Radio Wave Propagation in Tunnels. ISAP 2005, Seoul, Korea, August, 2005.

[40 E] A. Baharlouei, B Abolhassani and H. Oraizi, A New Smart Antenna for CDMA using Nelder-Mead Simplex Algorithm and ESPAR Antenna. The 2nd IEEE International Conference on Information & Communication Technologies: from Theory to Applications-ICTTA'06, Damascus, Syria, 24-28 April 2006.

[39 E] F. Tavassoli, H. Oraizi and B. Abolhassani, A New Eigen Decomposition Based Algorithm for Beamforming in CDMA Communication Systems. IEEE GCC 2006, Bahrain, 19-22 March 2006.

[38 E] H. Oraizi and N. Noori, A Least Square Method for Solving Parabolic Wave Equations with Impedance Boundary Conditions. 14th ICEE 2006, Iranian Conference on Electrical Engineering, Amirkabir Univ Tech, Tehran Iran.

[37 E] N. Noori, H. Oraizi and S. Safavi-Naeini, A New Method for Indoor MIMO Channel Capacity Evaluation, Proc. International Symposium on Telecommunications, IST2005, Shiraz, Iran, September 10-12, 2005, pp 877-880.

[36 E] N. Noori and H. Oraizi, A Parabolic Wave Equation Approach for Modeling Propagation Through Windows. Proc. 3rd International Conference on Computational Electromagnetics and its Applications, Beijing, China, November 1-4, 2004, pp 21-24.

[35 E] H. Oraizi and N. Noori, A New Parabolic Equation Method for Wave Propagation Modeling in Lossy Dielectric Media. 10th International Symposium on Antenna Technology and Applied Electromagnetics, Proc. ANTEM 2004/URSI, Ottawa, ON, Canada, July 20-23, 2004, pp 505-508.

[34 E] H. Oraizi and N. Noori, Parabolic Equation Method for Modeling Indoor Corridor Wave Propagation. 13th Iranian Conference on Electrical Engineering, Zanjan University, Zanjan, Iran, May 10-12, 2005. Proceedings on Communications, pp463-466.

[33 E] H. Oraizi and K. Keyghobad, Phase Response of Microstrip Reflectarray Elements of Variable Size. Proceedings of ISWSN 2005, Dzhahran, Soudi Arabia, December 26-28, 2005.

[32 E] Sh. Hosseinzadeh and H. Oraizi, Network Gain Determination for Coverage Areas Covered by Single Frequency Networks. Proceedings of ISWSN 2005, Dzhahran, Soudi Arabia, December 26-28, 2005.

- [31 E] H. Oraizi, K. Keyghobad and Sh. Hosseinzadeh, Application of Lossy Phase Shifters for Microstrip Reflectarray Antennas. Proceedings The 13th Conference on Microwave Techniques, Czech Technical University in Prague, Prague, Czech Republic, September 26-28, 2005, pp 52-55.
- [30 E] K. Keyghobad and H. Oraizi, Improvement of the Bandwidth of Microstrip Reflectarray Antenna for Use in Microsatellites. IEEE Antennas and Propagation Societys International Symposium and USNC/CNC/URSI, Columbus, Ohio, USA, June 22-27, 2003.
- [29 E] H. Oraizi and K. Keyghobad, Microstrip, Reflectarray Antennas for Use in Satellite Communications. IEE 12th International Conference on Antennas and Propagation, ICAP 2003, University of Exeter, United Kingdom, 31st March – 3rd April 2003.
- [28 E] H. Oraizi and K. Keyghobad, Design and Analysis of a Microstrip Reflectarray Antenna for Use in Microsatellites, PIERS, Singapore, 2003.
- [27 E] h. Oraizi, K. Keyghobad and Sh. Hosseinzadeh, Reactive Phase Shifters for Bandwidth Enhancement of Microstrip Reflectarray Antennas. The 17th Asia-Pacific Microwave Conference, APMC², Suzhou, China, December 4-7, 2005.
- [26 E] K. Keyghobad and H. Oraizi, Microstrip Reflectarray Antennas for Use in Microsatellites, Proceedings on Nordic Antenna Symposium, Antenn 03, Kalma, Sweden, May 13-15, 2003.
- [25 E] H. Oraizi and Sh. Hosseinzadeh, Solution of Parabolic Equations by the Least Square Method. Proceedings of the 34th European Microwave Conference, Amsterdam, The Netherlands, 2004.
- [24 E] H. Oraizi and Sh. Hosseinzadeh, A New Method for Determination of Propagation Loss in the Presence of Multiple Knife Edges by Parabolic Equation Method, Mediterranean Microwave Symposium, Marseille, France, June 1-3, 2004, Proceedings of MMS², p 31.
- [23 E] H. Oraizi and Sh. Hosseinzadeh, Determination of Propagation Loss in the Troposphere with Piece-wise Linear Boundary by Parabolic Equation Method. 2004 International Symposium on Antennas and Propagation, Sendai, Japan, August 17-21, 2004, Proceedings of ISAP₇, pp729-732.
- [22 E] H. Oraizi and Sh. Hosseinzadeh, A New Least Square Based Method for the Solution of Parabolic Equations. 2004 International Symposium on Antennas and Propagation, Sendai, Japan, August 17-21, 2004, Proceedings of ISAP₇, pp733-736.

[21 E] H. Oraizi and Sh. Hosseinzadeh, Determination of the Effect of Vegetation on Radiowave Propagation by the Parabolic Equation Method. International Symposium on Telecommunications, Isfahan, Iran, August 16-18, 2003, Proceedings of IST², pp340-344.

[20 E] H. Oraizi and Sh. Hosseinzadeh, Some Interesting Notes on the Modeling of Wave Propagation in the Troposphere Using the Parabolic Equation Method. International Symposium on Telecommunications, Isfahan, Iran, August 16-18, 2003, Proceedings of IST², pp340-344.

[19 E] H. Oraizi and Sh. Hosseinzadeh, The Effect of Atmospheric Duct on Modern OFDM-Based Digital Broadcasting Systems. The 33rd European Microwave Conference, Munich, Germany, 2003, proceedings EUMIC², pp747750.

[18 E] H. Oraizi and Sh. Hosseinzadeh, Determination of Backward Electromagnetic Field Due to Knife-Edge Scattering by Parabolic Equation Method. International Radar Symposium India, Bangalore, India, December 2-5, 2003, Proceedings of IRSI², pp 436-439.

[17 E] Sh. Hosseinzadeh, H. Oraizi and M. Farrokhi, Reconstruction of Permittivity Profile of Dielectric Slabs by Artificial Neural Networks. Mediterranean Microwave Symposium, Caceres, Spain, June 26-28, 2002, Proceedings of MMS-2002, pp CP: 221-224.

[16 E] H. Oraizi and T. Pakizeh, Analysis of E-Plane Strips in Rectangular Waveguides. Mediterranean Microwave Symposium, Caceres, Spain, June 26-28, 2002, Proceedings of MMS-2002, pp CP: 43-46.

[15 E] H. Oraizi and M. Bakhshandeh, Optimum Design of Microstrip Ring Couplers with Arbitrary Power Division and Impedance Matching. Mediterranean Microwave Symposium, Caceres, Spain, June 26-28, 2002, Proceedings of MMS-2002, pp CP: 205-208.

[14 E] H. Oraizi and E. Mokhatab, Analyzing a Dipole Antenna Using Matrix Form of MLS. Mediterranean Microwave Symposium, Caceres, Spain, June 26-28, 2002, Proceedings of MMS-2002, pp CP: 47-50.

[13 E] H. Oraizi and E. Mokhatab, Analyzing a Folded Dipole Antenna Using the Matrix Form of MLS. Mediterranean Microwave Symposium, Caceres, Spain, June 26-28, 2002, Proceedings of MMS-2002, pp CP: 51-54.

[12 E] H. Oraizi and T. Pakizeh, Analysis of E-Plane Metal Strips on a Dielectric Slab in Rectangular Waveguides. 2002 IEEE Canadian Conference on Electrical and Computer

Engineering, Manitoba , Canada, May 12-15, 2002, Proceedings of IEEE CCECE[®], pp 001-006.

[11 E] K. Hirasawa and H. Oraizi, Reactance Loaded Cavity-Backed Square-Loop Slot Antenna for Circular Polarization. International Conference on Electromagnetics in Advanced Applications, Torino, Italy, September 08-12, Proceedings of ICEAA_03, pp

[10 E] H. Oraizi, M. Moradian and K. Hirasawa, Optimum Design of Parallel Coupled-Line Filters. 2004 Ninth IEEE Singapore International Conference on Communication Systems, Singapore, September 6-8, 2004, Proceedings ICCS[®], pp 340-344.

[09 E] H. Oraizi, Solution of the Junction of TE₁₁-Mode Circular Waveguides by the Least Square Method. Progress in Electromagnetics Research Symposium, Nantes, France, July 13-17, 1998, Proceedings of PIERS[®].

[08 E] Sh. Jam and H. Oraizi, Optimization of Tapered Slot Antenna Profile by the Method of Least Squares. Millennium Conference on Antennas and Propagation, AP-2000, Davos, Switzerland, April 9-14, 2000, ESA SP-444 Proceedings (0884).

[07 E] H. Oraizi and A. Hajhosseini-Mesgar, Solution of Hallen and Pocklington Integral Equations for Cylindrical Antennas by the Method of Least Squares. Progress in Electromagnetic Research Symposium, Osaka, Japan, July 18-22, 2001, PIERS[®] Proceedings, p 528.

[06 E] Sh. Jam and H. Oraizi, Analysis of Tapered Slot Antennas by the Method of Least Squares. Progress in Electromagnetic Research Symposium, Osaka, Japan, July 18-22, 2001, PIERS[®] Proceedings, p 529.

[05 E] H. Oraizi and Gh. Gabaranzad-Ghadim, Optimum Design of Broadband Multisection Coupled-Line Couplers with Impedance Matching. Progress in Electromagnetic Research Symposium, Osaka, Japan, July 18-22, 2001, PIERS[®] Proceedings, p 129.

[04 E] A. Cheldavi, H. Oraizi and M. Kamarei, Time Domain Analysis of Transmission Lines. The 25th European Microwave Conference, Bologna, Italy, September 4-8, 1995, the 25th EuMc Proceedings, pp 794-797.

[03 E] H. Oraizi and J. Perini, A Numerical Method for the Solution of Junction of Cylindrical Waveguides. IEEE G-MTT International Symposium, Boulder, Colorado, USA, June 4-6, 1973.

[02 E] H. Oraizi and J. Perini, Non-uniform Transmission Line Synthesis by Least Squares. The 1st Iranian Congress of Electrical and Electronics Engineering, Shiraz University, Shiraz, Iran, May 1974, ICEE Proceedings, pp 1232-1243.

[01 E] H. Oraizi, Selection of a Marine Traffic Control System. The 3rd International Symposium on Marine Traffic Service, Liverpool Polytechnic, England, April 3-6, 1978, ISMTS Proceedings, pp 176-186.

CONFERENCE PAPERS IN FARSI

[53 P] Zahra Mansoori, Alireza Karimi and H. Oraizi, Design, simulation and fabrication of a Bagley 4-way power divider in X band. *The International Conference in New Research of Electrical Engineering and Computer Science*, Sep 10, 2015, Tehran University, Tehran, Iran.

[52 p] K.Nekoie-Tehrani, E-Ghassemi, F-Aghamohamadi, H. Oraizi, A.Abdolali, F. Hojat-Kashani. Implementation of PEMC boundary Condition for microwave wideband system".pp. 12-15. 1st Iranian Conference on Engineering Electromagnetics 26-27 DEC.2012.

[51 P] H.Oraizi and Sh.Hedayati. "Wide-band monopole antenna with Hilbert Fractal Slots in the ground plane. "pp. 116-119. 1st Iranian Conference on Engineering Electromagnetics 26-27 DEC.2012.

[50 P] h.Oraizi, M. Bahramgiri and Sh.Hedayati. " Miniaturized Omnidirectional dual-band multilayer Fractal E-Shaped Patch antenna. "pp. 124-128. 1st Iranian Conference on Engineering Electromagnetics 26-27 DEC.2012.

[49 P] S.Atashbahar, M.Tayarani, H.Oraizi & S.Bayanloo. "Band-Stop filter with desirable Selectivity at the two ends of the band using DGS."pp. 247-250. 1st Iranian Conference on Engineering Electromagnetics 26-27 DEC.2012.

[48 P] Homayoon Oraizi, Mohammad Amin Chaichizadeh."Implementation of Camouflage, Cloaking and Stealth Technologies"National Conference on Science and Engineering with emphasis on passive defense camouflage, concealment and deception. February 20, 2014. pp. 1-25.

[47 P] M. Afsahi and H. Oraizi, Design of Ultra-wide Band Radar Absorbing Materials using Metamaterials. 5'th Iranian Conference on Electronic Warfare. January 2012,

Imam Hossein University, Tehran, Iran.

[46 P] M. Afsahi and H. Oraizi, Design of Two-Band Radoms for Antennas using Metamaterials. The First Conference on Passive Surveillance Systems, 13-14 December 2011, Electrical Engineering Department, Shiraz University.

[45 P] H. Oraizi and F. Karshenas, A Novel Band-stop Biconical Antenna UWB Applications. 19th Iranian Conference on Electrical Engineering, ICEE2011, 17-19 May 2011, Amirkabir University of Technology, Tehran, Iran.

[44 P] H. Oraizi and A. Abdolali, Application of Metamaterials in Planar Multilayer Structures for the Realization of Zero Reflection. 19th Iranian Conference on Electrical Engineering, ICEE2011, 17-19 May 2011, Amirkabir University of Technology, Tehran, Iran.

[43 P] H. Oraizi and Sh. Hedayati, Microstrip Antennas with Circular Polarization Combining Square and Giuseppe Peano Fractal Geometries for Multiband Applications.

19th Iranian Conference on Electrical Engineering, ICEE2011, 17-19 May 2011, Amirkabir University of Technology, Tehran, Iran.

[42 P] H. Oraizi and A-R Sharifi, Design and Optimization of Multi-Section Two-Way Gysel Power Divider with Arbitrary Unequal Power Division Ratio and Impedance Matching. The 18th Iranian Conference on Electrical Engineering, 11 through 13 May 2010, Isfahan University of Technology, Isfahan, Iran

[41 P] H. Oraizi, A. Abdolali and N. Vaseghi, Application of DZR Metamaterials for the Design of Absorbing Materials. The 18th Iranian Conference on Electrical Engineering, 11 through 13 May 2010, Isfahan University of Technology, Isfahan, Iran

[40 P] Sh. Hedayati and H. Oraizi, Miniaturization of Microstrip Antennas Using the Novel Giuseppe Peano Fractal Geometries. The 18th Iranian Conference on Electrical Engineering, 11 through 13 May 2010, Isfahan University of Technology, Isfahan, Iran

[39 P] H. Oraizi and A. Sharifi, Improvement of the Bandwidth of Two Way Gysel Power Divider. The 17th Iranian Conference on Electrical Engineering, Iran University of Science and Technology, Tehran, Iran, 12-14 May 2009

[38 P] H. Oraizi and E. Forati, A Novel Design for the Realization Active Multiplexers based on the Distributed Amplifiers. The 17th Iranian Conference on Electrical Engineering, Iran University of Science and Technology, Tehran, Iran, 12-14 May 2009

[37 P] M.M. Ghassempouri and H. Oraizi, Investigation of the SAR Distribution Inside the Three Layer Model of Human Head and its Comparison with the IEC 62209-1 Standard.

The First Conference on the Effects of Electromagnetic Fields on Live tissues and Electrical and Electronic Equipments, Amir Kabir University of Technology, Tehran, Iran, 28-30 May 2008

[36 P] M.M Ghasempouri and H. Oraizi, Investigation of the Specific Absorption Rate (SAR) in the Three Layer Model of the Human Head and its Comparison with the IEC 62209-1 Standard Model, Electromagnetic Field Effect Symposium, 27-9 May 2008, Amirkabir University of Technology, Tehran, Iran.

[35 P] h. Oraizi and M. Fallahpour, Array Synthesis for Specified Radiated Pattern and Element Input Impedance by Combining Genetic Algorithm and Gradient Algorithms. The 16th Iranian Conference on Electrical Engineering, 13-17 May 2008, Tarbiat Modares University, Tehran, Iran.

[34 P] M. M. Ghassempouri and H. Oraizi. Design and Simulation of Broadband Microstrip Antenna using Shorting Stripes. The 16th Iranian Conference on Electrical Engineering, 13-17 May 2008, Tarbiat Modares University, Tehran, Iran.

[33 P] H. Oraizi and M. Talafi Noghani, Design and Optimization of a Longitudinal Slot Array on a Rectangular Waveguide. The 16th Iranian Conference on Electrical Engineering, 13-17 May 2008, Tarbiat Modares University, Tehran, Iran.

[32 P] M. Kazerouni, A. Cheldavi, H. Oraizi and H. Mohseni-armaki, Design of a Typical Radar Phase Array with EBG and Evaluation of its Performance upon Failure of some of its Radiating Elements. The Fifteenth Iranian Conference on Electrical Engineering, Iran Telecom Research Center, Tehran, 15-17 May 2007, Communications (Fields & Waves) Proceedings, pp 38-44

[31 P] H. Oraizi and B. Ahmadi, Synthesis of Antenna Arrays by the Method of Least Squares and Digital Filter Theory. The Fifteenth Iranian Conference on Electrical Engineering, Iran Telecom Research Center, Tehran, 15-17 May 2007, Communications (Fields & Waves) Proceedings, pp 63-68.

[30 P] H. Oraizi and H. Davoodi, Synthesis of Four Frequency Band Microstrip Antenna for Automobiles. The Fifteenth Iranian Conference on Electrical Engineering, Iran Telecom Research Center, Tehran, 15-17 May 2007, Communications (Fields & Waves) Proceedings, pp 158-162.

[29 P] H. Oraizi and M. Afsahi, Analysis of Dielectric Multilayered FSS Structures by the Application of Transmission Line Model. The Fifteenth Iranian Conference on Electrical

Engineering, Iran Telecom Research Center, Tehran, 15-17 May 2007, Communications (Fields & Waves) Proceedings, pp 152-157.

[28 P] Z. Abolhassani and H. Oraizi, Synthesis of Microstrip Arrays with Circular Polarization. The Fifteenth Iranian Conference on Electrical Engineering, Iran Telecom Research Center, Tehran, 15-17 May 2007, Communications (Fields & Waves) Proceedings, pp 169-174.

[27 P] H. Oraizi and Sh. Hosseinzadeh, Solution of the Parabolic Partial Differential Equations by the Method of Least Squares, 37th Annual Iranian Mathematics Conference, AIMC 37, Azarbaijan Univ. of Tarbiat Moallem, Tabriz, Iran, 2-3 Sep 2006, pp100-102.

[26 P] H. Oraizi and N. Azadi-Tinat, Design and Optimization of Band-Pass Combine Filters with Impedance Matching. 14th ICEE 2006, Iranian Conference on Electrical Engineering, Amirkabir Univ Tech, Tehran Iran.

[25 P] H. Oraizi and K. Keyghobad, Application of FDTD for Determination of Phase Response of Reflected Waves from Microstrip Reflectarrays. 13th Iranian Conference on Electrical Engineering, 13th ICEE2005, Zanjan University, Zanjan, Iran, May 10-12, 2005, Proceedings on Communications, pp330-335.

[24 P] H. Oraizi and Sh. Hosseinzadeh, Extension of the Validity of Parabolic Equation Method for the Analysis of Radio Wave Propagation over Sloping Earth. 12th Iranian Conference on Electrical Engineering, Ferdowsi University, Mashhad, Iran, Proceedings of the ICEE2004, pp582-587.

[23 P] H. Oraizi and T. Pakizeh, Analysis and Determination of the Equivalent Circuit of E-Plane Fin in Rectangular Waveguides. The 10th Iranian Conference on Electrical Engineering, ICEE'02, University of Tabriz, Tabriz, Iran, May, 2002 Proceedings on Communications, pp 363-373.

[22 P] T. Pakizeh and H. Oraizi, Application of Array Antennas in Mobile Radio.

The Fourth Iranian Student Conference on Electrical Engineering, Tehran University, Tehran, Iran, pp 924-931.

[21 P] H. Oraizi and M. Moradian, A New Microstrip Circuit Configuration for Parallel Coupled-Line Band-Pass Filters for Simultaneous Suppression of 2nd and 3rd Spurious Pass-Bands. The 13th Iranian Conference on Electrical Engineering, Zanjan University, Zanjan, Iran, May 10-12, 2005, The 13th ICEE2005 Proceedings on Communications, pp175-180.

[20 P] H. Oraizi and Sh. Jam, Optimum Design of Tapered Slot Antenna Based on Simulation by the Step-Line Model. The 8th Iranian Conference on Electrical Engineering, Isfahan University of Technology, Isfahan, Iran, May 28-30, 2000, 8th ICEE Proceedings on Telecommunications, pp 26-33.

[19 P] Sh. Jam and H. Oraizi, Analysis of Tapered Slot Antenna utilizing the Least Mean Square Method. The 9th Iranian Conference on Electrical Engineering, Power and Water Institute of Technology, Tehran, Iran, May 8-10, 2001, 9th ICEE Proceedings on Telecommunication, pp 31-1 to 31-9.

[18 P] H. Oraizi, A Proposed Model for Development of Electronics and Information and Communication Technologies (ICT) in Iran. The First EurAsia Conference on Advances in Information & Communication Technology, Fars International Conference on the Development of Electronics & Information Technology, Shiraz, Iran, October 29-31, 2002, Proceedings pp 69-77.

[17 P] H. Oraizi and Sh. Saeedi, Analysis of the Microstrip Ring Antenna by the Method of Least Squares. The 11th Iranian Conference on Electrical Engineering, Shiraz University, Shiraz, Iran, May 6-8, 2003, the 11th ICEE Proceedings on Communications, pp165-176.

[16 P] H. Oraizi and A. Hajhosseini-Mesgar, Solution of Hallen's Equation for Cylindrical Antennas by the Method of Least Squares. The 9th Iranian Conference on Electrical Engineering, Power and Water Institute of Technology, Tehran, Iran, May 8-10, 2001, 9th ICEE Proceedings on Telecommunication, pp 33-1 to 33-9.

[15 P] H. Oraizi and H. Alamdari, Simulation of Wave Propagation in Urban Environment by Ray Tracing Method. The 10th Iranian Conference on Electrical Engineering, University of Tabriz, Tabriz, Iran, May, 2002, the 10th ICEE Proceedings on Communications, pp 1-9.

[14 P] A. Foroozesh, S Babaei and H. Oraizi, Radiation Pattern Synthesis of Arbitrary Antenna Arrays by the Modified Method of Least Squares. The 9th Iranian Conference on Electrical Engineering, Power and Water Institute of Technology, Tehran, Iran, May 8-10, 2001, the 9th ICEE Proceedings on Communications, pp34-1 to 34-8.

[13 P] H. Oraizi and S. Taghaddosi, Design and Fabrication of Microstrip Impedance Transformers by the Method of Least Squares. The 8th Iranian Conference on Electrical Engineering, Isfahan University of Technology, Isfahan, Iran, May 18-20, 2000, the 8th ICEE Proceedings on Communications, pp 104-115.

[12 P] H. Oraizi, A. Falahati and S. Erfanian, Analysis, Design and Fabrication of an Antenna for Base Transceiver Station (BTS). The 7th Iranian Conference on Electrical Engineering,

Iran Telecommunication Research Center, Tehran, Iran, May 17-19, 1999, Proceedings on Telecommunication, pp69-75.

[11 P] H. Oraizi, M. Aghajani and H. Farhadi, Determination of the Initial Size of Cells in Mobile Cellular Communication. The 7th Iranian Conference on Electrical Engineering, Iran Telecommunication Research Center, Tehran, Iran, May, 17-19, 1999, Proceedings on Telecommunication, pp 1-8.

[10 P] H. Oraizi, Least Square Solution for the Junction of TE₁₁-Mode Circular Waveguides. The 6th Iranian Conference on Electrical Engineering, K. N. Toosi University of Technology, Tehran, Iran, May 12-14, 1998, Proceedings on Telecommunication, pp 149-2 to 149-155-2.

[09 P] H. Oraizi and M. Behdad, Computation of Rain Attenuation at Microwave Frequencies and Determination of its Statistical Diagrams for Several Iranian Cities. The 6th Iranian Conference on Electrical Engineering, K. N. Toosi University of Technology, Tehran, Iran, May 12-14, 1998, Proceedings on Telecommunication, pp 2-189 to 2-197.

[08 P] H. Oraizi, Optimum Design of Multi-hole Directional Couplers with Arbitrary Aperture Spacing. The 5th Iranian Conference on Electrical Engineering, Sharif University of Technology, Tehran, Iran, May 7-9, 1997, Proceedings on Telecommunication, pp-5-256 to 5-263.

[07 P] H. Oraizi, Design of Complex Impedance Step-line Transformers by the Method of Least Squares. The 4th Iranian Conference on Electrical Engineering, Tehran University, Tehran, Iran, May 13-16, 1996, Proceedings on Telecommunication, pp 190-197.

[06 P] H. Oraizi, M. Soleimani and M. Abaie, Computer Simulation of Radio Wave Propagation in Urban Areas. The 4th Iranian Conference on Electrical Engineering, Tehran University, Tehran, Iran, May 13-16, 1996, Proceedings on Electrical Engineering, pp 101-109.

[05 P] H. Oraizi, Education of Future Engineers. The 3rd Iranian Conference on Electrical Engineering, Iran University of Science and Technology, Tehran, Iran, May 13-15, 1995, Proceedings on Education in Engineering, pp 17-41.

[04 P] H. Oraizi, Design of Real Impedance Transformers by the Method of Least Squares. The 3rd Iranian Conference on Electrical Engineering, Iran University of Science and Technology, Tehran, Iran, May 13-15, 1995, Proceedings on Telecommunication, pp 471-484.

[03 P] A. Cheldavi, M. Kamarei and H. Oraizi, Simulation of Step-line Transmission Lines by the Time Discrete Filters. The 3rd Iranian Conference on Electrical Engineering, Iran University of Science and Technology, Tehran, Iran, May 13-15, 1995, Proceedings on Telecommunication, pp 493-507.

[02 P] A. Cheldavi, M. Kamarei and H. Oraizi, Analysis of Transmission Lines with Random Inputs and Nonlinear Loads. The 3rd Iranian Conference on Electrical Engineering, Iran University of Science and Technology, Tehran, Iran, May 13-15, 1995, Proceedings on Telecommunication, pp 518-526.

[01 P] H. Oraizi, Description of the Incandescent Lamp and the Method of its Manufacturing. The 1st Seminar on the Research and Development for Self-sufficiency in Lamp Industries and Illumination, Ministry of Industries, Tehran, Iran, January 29-30, 1988, Proceedings pp18-45.