

Seyed Ali Razavi Parizi

Assistant professor
Graduate university of advanced technology, Kerman, Iran

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Courses:

- Electromagnetic Fields and waves (under graduate)
 - Theory of advanced electromagnetics (graduate)
 - Antenna II (graduate)
 - Printed circuit antennas (graduate)
 - Optical communication systems (graduate)
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Education:

PhD: University: Ferdowsi University of Mashhad, Iran

M.Sc: University: Ferdowsi University of Mashhad, Iran

B.Sc: University: Shahid Bahonar Kerman, Iran

Research experiences

MSc Thesis (under supervision of Prof. Amir reza Attari, *Department of electrical engineering, Ferdowsi University of Mashhad, Iran*):

- High frequency methods for calculation of backscattered fields from large objects.
- Improving the flatness of RCS pattern for corner reflectors.

PhD Thesis (under supervision of Dr. Mohammad Hassan Neshati, *Department of electrical engineering, Ferdowsi University of Mashhad, Iran*):

- Application of SIW technology in design and fabrication of antennas (Our focus were on Horn, cavity backed, leaky wave and slot array antennas).

Visiting scholar

1. Chalmers University of technology, Sweden, 2013 (with Prof. Per-Simon Kildal, *Department of signals and systems, division of antenna systems*)

Design and fabrication of a high gain planar slot array antenna at 60 GHz based on SIW and gap-waveguide technologies (*This work was supported in part by Huawei Technologies Sweden AB via a project to Gapwave AB, Gothenburg, Sweden*).

2. Chalmers University of technology, Sweden, 2017 (with Dr. Ashraf Uz Zaman, *Department of signals and systems, division of antenna systems*)

Design of a 60GHz multi beam antenna for fixed access points using gap waveguide technology

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Academic and professional membership:

- European Association on Antennas and Propagation (EurAAP).

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Honors and awards:

- Best antenna engineer silver award from antenna group in Chalmers University of Technology, Sweden, 2013.
- Best researcher of electrical engineering group in Ferdowsi University of Mashhad, Iran, 2013.

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Patents:

- “A Planar Multilayer Antenna” European Patent Office, WO2015172841 (A1), 2015-11-19, Applicant: Huawei Tech Co Ltd.
- “H-plane ridge gap-waveguide horn antenna capable of changing its beam direction and supporting surface” Industrial Property General Office, 94759, 2018-01-16.

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Book chapters

Chapter1: “Bandwidth Enhancement Techniques” in "Trends in Research on Microstrip Antennas," IntechOpen, 2017. ISBN: 978-953-51-3602-6

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Publications:

Conference papers

- [1]. **Seyed Ali Razavi**, Ashraf Us Zaman, “A Compact Phase Shifter in Groove Gap Waveguide for Millimeter-Wave applications,” accepted in *European Conference on Antennas and Propagation (EuCAP)*, London, 2018.
- [2]. F. Ahmadfard, **Seyed Ali Razavi**, “Backlobe suppressed H-Plane ridge gap waveguide (RGW),” *Iranian Conference on Electrical Engineering (ICEE)*, Tehran, 2017.
- [3]. N. Hassani, M. H. Ostovarzadeh, **Seyed Ali. Razavi**, “Ridge gave waveguide (RGW) cavity and its analytical model,” *International conference on New Perspective in Electrical & Computer Engineering*, Tehran, 2016.

- [4]. F. Ahmadfard, **Seyed Ali Razavi**, "H-Plane horn antenna in ridge gap waveguide technology," *Iranian Conference on Communication Engineering (ICCE)*, Shiraz, 2016.
- [5]. A. Moghimizadeh, **Seyed Ali Razavi**, M. H. Ostovarzadeh, "Cavity backed slot antenna based on groove gap waveguide technology," *International conference on New Perspective in Electrical & Computer Engineering*, Tehran, 2016.
- [6]. **Seyed Ali Razavi**, Mohammad H. Neshati, "Modified substrate integrated wave guide (SIW) horn antenna," *European Conference on Antennas and Propagation (EuCAP)*, pp. 1307-1310, Davos, 2016.
- [7]. **Seyed Ali Razavi**, Per-S. Kildal, "An air-filled cavity-backed 2×2 slot sub-array fed by inverted microstrip gap waveguide", *European Conference on Antennas and Propagation (EuCAP)*, Lisbon, 2015.
- [8]. Esperanza Alfonso, **Seyed Ali Razavi**, Liangliang Xiang and Haiguang Chen, "Analysis of Large Planar 60 GHz Array Including Microstrip-Ridge Gap Waveguide Distribution Network Using Modular Approach", *European Conference on Antennas and Propagation (EuCAP)*, Lisbon, 2015.
- [9]. **Seyed Ali Razavi**, Per-S. Kildal, L. Xiang, E. Alfonso and H. Chen, "Design of 60GHz Planar array antennas using PCB-based microstrip-Ridge gap waveguide and SIW," *European Conference on Antennas and Propagation (EuCAP)*, pp. 1825-1828, Hague, 2014.
- [10]. J. Yang and **Seyed Ali Razavi**, "A new E-plane bend for SIW circuits and antennas using gapwave technology," *Proceedings of the International Symposium on Antennas & Propagation (ISAP)*, vol. 1, pp. 593-596, China, 2013.
- [11]. **Seyed Ali Razavi**, Mohammad H. Neshati, "Low profile h-plane horn antenna based on half mode substrate integrated waveguide technique," *20th Iranian Conference on Electrical Engineering (ICEE)*, pp. 1351-1354, Tehran, 2012.
- [12]. **S. A. Razavi** and M. H. Neshati, "A dielectric loaded HMSIW h-plane horn antenna," *PIERS Proceedings*, pp. 1640-1643, Kuala Lumpur, Malaysia, March 27-30, 2012.
- [13]. **Seyed Ali Razavi** and Mohammad H Neshati, "Design Investigation of a Leaky Wave Antenna Using HMSIW Technique," *6th International Symposium on Telecommunications (IST)*, pp. 29-32, Tehran, 2012.
- [14]. **Seyed Ali Razavi**, Mohammad H. Neshati, "Low profile circularly polarized cavity backed antenna using HMSIW technique," *20th Iranian Conference on Electrical Engineering (ICEE)*, pp. 1355-1358, Tehran, 2012.

Journal papers

- [1]. F. Ahmadfard, **S. A. Razavi Parizi**, "Bandwidth and Gain Enhancement of Ridge Gap Waveguide (RGW) H-plane Horn Antennas Using Outer Transitions," accepted to be published in *IEEE Transactions on Antennas and Propagation* 2018.
- [2]. N. Hassani, M. H. Ostovarzadeh, **Seyed Ali Razavi** "Realization of a dual mode filter in ridge gapwaveguide (RGW) technology," accepted to be published in *Microwave ant opt Tech Letters*.,2018
- [3]. F. Ahmadfard, **S. A. Razavi Parizi**, "Groove Gap Waveguide (GGW) H-plane Horn Antenna and a Method for Its Back lobe Suppression," accepted to be published in *Journal of Communication Engineering*, 2018.
- [4]. **Seyed Ali Razavi**, Mohammad H. Neshati, "A low profile, broadband linearly and circularly polarized cavity backed antenna Using halved-dual mode SIW cavity," *Applied Computational Electromagnetics Society (ACES) Journal*. vol. 31, no. 8, pp. 953-959, 2016.

- [5]. **Seyed Ali Razavi**, Per-S. Kildal, L. Xiang, E. Alfonso and H. Chen, "2×2-slot element for 60GHz planar array antenna realized on two doubled-sided PCBs using SIW cavity and EBG-type soft surface fed by microstrip-ridge gap waveguide" *IEEE Trans. Antennas and Propagat.* vol. 62, no. 9, pp. 4564-4573. Sep 2014.
- [6]. **Seyed Ali Razavi**, Mohammad H. Neshati, "Design and analysis of modified HMSIW leaky wave antenna," *Int. Journal of Information and communication Technology Research IJICRT.*, vol. 6, no. 3, pp. 1-6, summer 2014.
- [7]. **Seyed Ali Razavi**, Mohammad H. Neshati, "Development of slot array antenna using a multiresonant SIW cavity," *Microwave ant opt Tech Letters.*, vol. 55, no. 11, pp. 2763-2767. November 2013.
- [8]. **Seyed Ali Razavi**, Mohammad H. Neshati, "Development of a low profile circularly polarized cavity backed antenna using HMSIW technique," *IEEE Trans. Antennas and Propagat.*, vol. 61, no. 3, pp. 1041-1047. March 2013.
- [9]. **Seyed Ali Razavi**, Mohammad H. Neshati, "Development of a linearly polarized cavity backed antenna using HMSIW technique," *IEEE Antennas and Wireless Propagation Letters.*, vol. 11, pp. 1307-1310, 2012.
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Review experiences:

- IEEE Transactions on antennas and propagations (TAP)
 - IET Microwaves, Antennas & propagation
 - IET Electronic Letters
 - IEEE Antennas and Wireless Propagation Letters (AWPL)
 - IEEE Access
 - WILEY International Journal of RF and Microwave Computer-Aided Engineering
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Workshops:

- Design of 2×2 slot element backed by SIW cavity for microstrip ridge gap waveguide, gap wave workshop at Chalmers University of Technology, Sweden, 21-22 November, 2013.
 - Different designs for 2×2 slot subarray in 60GHz planar array, gap wave workshop at Chalmers University of Technology, Sweden, 13-14 November, 2014.
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Skills

HFSS, FEKO, CST and ADS softwares