



Prof. Rajveer S. Yaduvanshi, Ph.D.

PROFESSOR, ECE DEPT, AIACTR, Govt. of NCT of Delhi, INDIA

RESEARCH AREA:

OPTICAL ANTENNAS, NDRA, SENSORS, RF, MICROWAVE SYSTEMS, DIELECTRIC RESONATOR ANTENNAS, AND MICROWAVE EMBEDDED SYSTEMS.

yaduvanshirs007@gmail.com ; Mobile : +91-9811962830 ; Research gate score: 26.32
dr Rajveersingh@aiactr.ac.in ORCID : <https://orcid.org/0000-0001-8617-835X>, Google Scholar :287

Experienced for 36 years in Government service, possess Academic Prowess, **CUTTING EDGE RESEARCH IN OPTICS AND MICROWAVE SENSORS AND ANTENNAS DESIGN & IMPLEMENTATIONS** Creative nature, Collaboration and networking competence with administrative caliber.

- Bachelor Degree (AMIE) in Electronics and Communication Engineering, IET, Kolkata, 1997.
- Master Degree (M.E) in Digital Systems in Electronics and Communication Engineering, MN NIT Allahabad, 1999
- Ph. D. in Electronics and Communication Engineering, Delhi University.
- Fellow, IETE- 2006 & LM-ISTE
- Excellence Award in Management- 2017.
- Excellence Award in Academics-2017.
- General Chair-ICPR 2017 (International Conference Springer organized 22-23 DEC 2017)+ Annual fest organized and three states AIEEE counseling organized as chairman.
- Director EQDC (S) Gujarat Government.
- Founding Member AIACTR, Govt. Engineering College.
- PhDs awarded (05) , seven in progress
- International collaboration project completed in 2015 at France.
- Start up and Incubation centers developed-one.
- M. Tech RF and Microwave course coordinator, 33 M. Tech awarded.
- Chairman recruitment committee at NILET, Govt. of India 2018.
- PhD evaluation Examiner, Evaluation committee Expert at AICTE, DRDO, ISRO, Skill University.
- Invited Speaker at International Conference, Seminars, Workshop and FDPs.(107 talks delivered)
- Publications: 101 research papers and four books (TAYLOR AND FRANCIS CRC, SPRINGER NATURE , IET INTERNATIONAL PUBLISHING)
- Foreign Visits : France and London

Books Published : FOUR

1. Rajveer S. Yaduvanshi, H Parthasarathy, "Magneto Hydro Dynamic Antenna (ISSN-978-81-8487-400-6)" 2015 Narosa Publishing.
2. Rajveer S. Yaduvanshi, H Parthasarathy, "Rectangular DRA Theory and Design (ISSN-978-81-322-2499-0)" SPRINGER International Publishing ,2015
3. Rajveer S. Yaduvanshi, G Varshney "Nano DRA for 5G applications, Taylor and Francis (CRC) International Publishing 2020.
4. Rajveer S. Yaduvanshi, H Parthasarathy , Terahertz dielectric resonator antenna for High speed communications and Sensor IET International Publishing 2020 (Accepted)

Research Papers: 107

Journal Publications:

Rajveer S Yaduvanshi, R Gupta, Saurabh, " Smart DRA for beam width and orientation control " Frequentz 2020

Piyush , Rajveer S Yaduvanshi, ""Design of Turtle-Shaped Dielectric Resonator Antenna for Ultra-Wide Band Applications" JCEL (Journal of Computational Electronics) JUN 2019. (SCI)

Rajveer S Yaduvanshi "Ultra-Wideband MIMO Dielectric Resonator Antenna for Microwave to Millimeter Wave Applications" IET 2019. (SCI)

G. Varshney, Astha Verma, V. S. Pandey, Rajveer . S. Yaduvanshi and Rajni Bala, " A Proximity coupled wideband graphene patch antenna with the generation of higher order TM modes for THz Applications", *Optical Materials, Elsevier*, Vol. 85 (SCI; IF: 2.32).

G. Varshney, V. S. Pandey and Rajveer . S. Yaduvanshi, "Axial ratio bandwidth enhancement of a circularly polarized rectangular dielectric resonator antenna", *Int. Jour. of Microwave and Wireless Technologies, Cambridge Univ. Press*. 2018 (Accepted). (SCI; IF: 0.96)

G. Varshney, Shailza Gotra, V. S. Pandey and Rajveer . S. Yaduvanshi, "Inverted Sigmoid Shaped Multiband Dielectric Resonator Antenna with Dual-Band Circular Polarization," *IEEE Transactions on Antennas and Propagation*, vol. 66, no. 4, pp. 2067-2072, April, 2018 (SCI; IF: 4.13).

G. Varshney, V. S. Pandey, and Rajveer. S. Yaduvanshi, "Dual-band fan-blade-shaped circularly polarised dielectric resonator antenna," *IET Microwaves, Antennas Propag.*, vol. 11, no. 13, pp.1868–1871, 2017. (SCI; IF: 1.739).

G. Varshney, V. S. Pandey, Rajveer. S. Yaduvanshi, and L. Kumar, "Wide Band Circularly Polarized Dielectric Resonator Antenna With Stair-Shaped Slot Excitation," *IEEE Trans. Antennas Propag.*, vol. 65, no. 3, p. 1380–1383, March, 2017 (SCI; IF: 4.13). 410–415, 2014.

G. Varshney, S. Gotra, V. S. Pandey and Rajveer. S. Yaduvanshi, "Ultra-wideband dielectric resonator antenna for microwave to millimeter wave applications" *IET Microwave, Antennas and Propagation*. (SCI)

R. Kumar, G. Varshney, S. Gotra and Rajveer. S. Yaduvanshi, "Multi-frequency, Dual-Band Circularly Polarized Rectangular Dielectric Resonator Antenna", *IET ON MICROWAVE Antennas and Propagation*. (SCI)

S. Gotra, G. Varshney, V. S. Pandey and Rajveer. S. Yaduvanshi, "The Circular Polarization Generation Technique with the Miniaturization of a Rectangular Dielectric Resonator Antenna ", *IET on MICROWAVE Antennas and Propagation*.2019 (SCI)

G. Varshney, Shailza Gotra, Saumya Chaturvedi, V. S. Pandey and Rajveer. S. Yaduvanshi, "Pattern Reconfigurable Four Port Epsilon-Shaped MIMO Dielectric Resonator Antenna", *IET Microwave, Antennas and Propagation* 2019 (SCI)

S. Gotra, G. Varshney, Rakesh Singh, V. S. Pandey and R. S. Yaduvanshi, "A wideband two port MIMO dielectric resonator antenna with circular polarization", *International Journal of RF Microwave and Computer Aided Engineering, Wiley* 2019 (SCI)

G. Varshney, Shailza Gotra, V. S. Pandey and Rajveer. S. Yaduvanshi, "Obtaining the circular polarization in a nano-dielectric resonator antenna for photonic applications", *Semiconductor Science and Technologies, Springer. (SCI)* 2019

GAURAV, RAJVEER S YADUVANSHI A Proximity Coupled Two-Port MIMO Graphene Antenna with Pattern Diversity for THz Applications," *Nano Communication Networks* 2019. (SCI)

GARIMA , RAJVEER S YADUVANSHI,"SAPPHIRE STACKED RECTANGULAR DIELECTRIC RESONATOR APERTURE COUPLED ANTENNA FOR C-BAND APPLICATIONS" *WPC SPRINGER* 2019.(SCI)

GARIMA , RAJVEER S YADUVANSHI, "TWO-LAYER SAPPHIRE RECTANGULAR DIELECTRIC RESONATOR ANTENNA FOR RUGGED COMMUNICATIONS" *PIERL, Vol. 85, page 73-80, 2019*(SCI)

Gaurav Varshney, Shailza Gotra, V.S. Pandey, Rajveer Yaduvanshi, "Inverted-Sigmoid Shaped Multi-Band Dielectric Resonator Antenna with Dual Band Circular Polarization" in *Paper volume PP5 Issue 99, IEEE Transactions on Antennas and Propagation, 2018.*

Gaurav Varshney, VS Pandey, Rajveer Yaduvanshi, Lalit kumar "Wide Band Circularly Polarized Dielectric Resonator Antenna With Stair-Shaped Slot Excitation " *IEEE Transactions on Antennas and Propagation* 2017, volume 65 Issue 3 Pages 1380-1383.

Rajveer Yaduvanshi, Gaurav Varshney "Dual-band fan-blade-shaped circularly polarized dielectric resonator antenna, , Volume 11, Issue 13 *IET* 2017.(SCI)

Piyush , Rajveer S Yaduvanshi, "Design of Ninja-Turtle Shaped Dielectric Resonator Antenna for Ultra-Wide Band Applications", which you submitted to *Journal of Computational Electronics*, 2019 (SCI).

Shailza Gotra, Gaurav Varshney, Vinay Shankar Pandey, Rajveer Singh Yaduvanshi," Super-Wideband Multi-Input-Multi-Output Dielectric Resonator Antenna" IET Microwave, Antennas and Propagation,2019/8/28(SCI).

Gaurav Varshney, Shailza Gotra, Rakesh Singh, VS Pandey, RS Yaduvanshi," Dimensions Selection Criteria of Stair shaped Slot for Obtaining the Wideband Response of CPDRA" Defence Science Journal,2019/9/17(SCI)

Gaurav Varshney, Shailza Gotra, Vinay Shankar Pandey, Rajveer Singh Yaduvanshi," A proximity coupled two-port MIMO graphene antenna with pattern diversity for THz applications" Journal Nano Communication Networks, Elsevier, 2019/6/13(SCI).

Gaurav Varshney, Shailza Gotra, Jasleen Kaur, VS Pandey, RS Yaduvanshi," Obtaining the circular polarization in a nano-dielectric resonator antenna for photonics applications" Semiconductor Science and Technology, IOP Publishing, 2019/6/3(SCI).

RajveerYaduvanshi, Gaurav,Pandey"Axial ratio bandwidth enhancement of a circularly polarized rectangular dielectric resonator" ,IJMWT,and Cambridge press 2018.

RajveerYaduvanshi, Mahender, "An investigations into massive gain in hybrid configurable CDRA", WPC Springer 2018.

Piyush Sharma, Rajveer Yaduvanshi, Arti Vaish and Mahender, "Analytical computation of resonant frequency of rectangular DRA by including effective dimensions of DRA" WPC 2018 Springer

RajveerYaduvanshi"Embedded Cylindrical Magneto Hydrodynamic Antenna", , IJUWCS, Inder Science,2016

RajveerYaduvanshi, Harish Parthasarathy"Rectangular DRA Theory and Design ", , Book in Springer,2016

RajveerYaduvanshi, Mahender"An Investigation of Resonant Modes in Rectangular Dielectric Resonator Antenna Using Transcendental Equation", , WPC Springer 2017.

Yaduvanshi Rajveer S,"Design and analysis of superstrate embedded dielectric resonator antenna", IJUWBCS, Inderscience 2014.volume-3 issue 1 pages 31-37

RajveerYaduvanshi"Hybrid magneto-hydrodynamic antenna", IJUWBCS, Inder Science, 2012.

RajveerYaduvanshi" High gain and Wide band DRA," , IJUWBCS , Inder science 2015

RajveerYaduvanshi" Embedded Cylindrical MHD antenna" , ,IJUWBCS , Inder science 2011

RajveerYaduvanshi" Fluid frame MHD antenna" , IJI, 2012

RajveerYaduvanshi , Harish Parthasarathy"Exact solution of magneto-hydrodynamic system with non linearity analysis " , JATIT, 2011.volume 23 issue 2.

Garima Bakshi, Rajveer Singh Yaduvanshi, Atul Kumar "Design of Rectangular Dielectric Antenna Using Sapphire with Probe Fed Arrangement" IJIEEE (ISSN-2347-6982), 2017

Rajveer S Yaduvanshi, Harish Parthasarathy "EM Wave Transport 2D and 3D Investigations" IJACSA (ISSN-2156-5570) 2010 volume 1 pages 114

Mahender Singh, R.S Yaduvanshi "An Approach of Micro strip patch To magneto Hydro Dynamic Antenna A Review" IJEEE (ISSN-2301380X)

Mahender Singh, R S yaduvanshi "Optimization of Resonant Frequency Of Rectangular Micro strip Patch Antenna For X- Band Applications" IJSTM (ISSN-2394-1529) 2013

Rajveer S Yaduvanshi, Harish Parthasarathy "Solution Of electromagnetic And Velocity Fields For An Electrodynamics Fluid Dynamical System" IJACSA (ISSN- 2156- 5570), 2011

RS Yaduvanshi, H Parthasarathy "Exact Solution of 3D Magneto hydrodynamic System with Nonlinearity Analysis JATIT" (ISSN-1992-8645)

RS Yaduvanshi, H Parthasarathy "Coupled Solution Of Boltzmann Transport Equation, Maxwell's And Navier Stokes Equations" IJI (ISSN-2156- 5570), 2011

Rajveer Singh Yaduvanshi Harish Parthasarathy, Ashok De, Richa Gupta "Fluid Frame Magneto hydrodynamic Antenna" IJI (ISSN-1742-4712), 2012 pages 5-9.

Rajveer S Yaduvanshi, Harish Parthasarathy "Design, Development And Simulations Of MHD Equations With its Proto Type Implementations" IJACSA (ISSN-2156-5570), 2011 volume 1 issue 4

Rajveer S Yaduvanshi "Design And Analysis Of Superstrate Embedded Dielectric Resonator Antenna" IJUWCS (ISSN-1758-7298)

Richa Gupta, RAJVEER S Yaduvanshi "High gain And Wide Band Rectangular DRA IJUWCS" (ISSN-1758-7298), 2015

Mahender Singh, Abhishek Kumar Gautam, RAJVEER S YADUVANSHI, Arti Vaish "An Investigation Of Resonant Modes In Rectangular Dielectric Resonator Antenna Using Transcendental Equation Springer" WPC (ISSN- 0929-6212), 2017 volume 95 issue 3 pages 2549-2559.

Gaurav Varshney, VS Pandey, Rajveer Yaduvanshi, Lalit kumar "Wide Band Circularly Polarized Dielectric Resonator Antenna With Stair- Shaped Slot Excitation" IEEE Transactions Antenna and Wave Propagation ITAP (ISSN- 1558-2221), 2017

Richa Gupta, Rajveer S yaduvanshi "Embedded Cylindrical Magneto Hydrodynamic Antenna, InderScience" IJUWCS (ISSN-1758-7298), 2015

Rajveer S Yaduvanshi "Hybrid magneto-hydrodynamic antenna" IJUWCS Inderscience (ISSN-1758-7298), 2012 volume 2 issue 4 pages 201-206

Rajveer Yaduvanshi, Gaurav Varshney "Dual- band Fan- Blade- Shaped Circularly Polarized Dielectric Resonator Antenna" IET Journal 2015 .

Rajveer S Yaduvanshi , "Rectangular DRA Resonant modes, Book published in Springer 2016

RajveerYaduvanshi ,Sunil Bist "Investigations into Hybrid Magneto- Hydrodynamic (MHD) Antenna" Journal (IJCT),2013 volume 4 issue 2b2 pages 454-459.

Gaurav Varshney, VS Pandey, RajveerYaduvanshi"A Dual Band Fan – Blade Shaped Circularly Polarized Dielectric Resonator Antenna" IET Microwave Antennas & Propagation volume 11 issue 13 pages 1868-1871

RajveerYaduvanshi, Gaurav Varshney, VS Pandey "Axial ratio bandwidth enhancement of a circularly polarized rectangular dielectric resonator",IJMWT,and Cambridge press 2018.

RajveerYaduvanshi, Mahender "An investigations into massive gain in hybrid configurable CDRA", ,WPC Springer 2018

Conference Publications:

1. Gaurav Varshney, Pushkar Praveen, Rajveer Singh Yaduvanshi ,Vinay Shankar Pandey"Conical Shape Dielectric Resonator Antenna For ultra Wide Band Application" in IEEE International Conference, p.1304-1307 ICCCA(2015).
2. Gaurav Varshney, Rajveer S Yaduvanshi and V.S Pandey, "Gain And Bandwidth Controlling Of Dielectric Slab Rectangular Dielectric Resonator Antenna" INDICON (2015) IEEE International Conference, pages 1-4.
3. Gaurav Varshney, Pankaj Mittal, V.S Pandey, Rajveer S Yaduvanshi and Swarna Pundir, "Enhanced Bandwidth high Gain Microstrip patch Feed Dielectric Resonator Antenna" IEEE Int. Conf. on Computing Communication & Automation (ICCCA-2016), 2016.pages 1479-1483.
4. .G. Varshney, Shailza Gotra, V.S Pandey and Rajveer S Yaduvanshi. "The Generation Of The Circular Polarization in Dielectric Resonator Antenna Using an Arc Shaped Dielectric Element" EuCAP-12 London, April 2018.
5. G. Varshney, V.S Pandey and Rajveer S Yaduvanshi,"Axial Ratio Bandwidth Enhancement of A Circular Polarized Dielectric Resonator Antenna with Stair- Shaped Slot Excitation" Int. Conf. On Signal Processing- 2017 (ICPR-2017), Delhi .
6. Astha Verma, G. Varshney, V.S Pandey and Rajveer S Yaduvanshi, " Graphene Based MIMO Antenna" Int. Conf. On Signal Processing-2017 (ICPR-2017) Delhi.
7. G. Varshney, V.S Pandey and Rajveer S Yaduvanshi and Rakesh Singh," Miniaturization technique of Rectangular Dielectric Resonator Antenna" Int. Conf. on Signal Procassing-2017(PCPR-2017) Delhi.
8. Rajveer S Yaduvanshi"Supersrate Embedded Hybrid f Antenna" ICCCA (2015), IEEE International Conference, p.2325-9418.
9. R. Gupta ,T. Sharma, and Rajveer S Yaduvanshi" Cylindrical Inhomogeneous Dielectric Magneto-hydrodynamic Antenna in p.978-93-80544-12-0' ICCCA (2014), IEEE International Conference.
10. Rajveer S Yaduvanshi" Design For Enhancing Gain In Multimodal Cylindrical Dielectric Resonator Antenna." ICCCA (2013), IEEE International Conference, p.2325-9418.
11. Rajveer S Yaduvanshi" Gain and Bandwidth Enhancement RDRA." ICCCA (2013), IEEE International Conference, p.978-1-4799-3926-8.
12. Rajveer S Yaduvanshi" Reconfigurable Aperture Coupled RDRA." ICCCA (2015), IEEE International Conference, p.978-9-3805-4416-8.

13. Rajveer S Yaduvanshi, H. Parthasarathy, A De ,R Gupta", Fluid Frame Magneto- Hydrodynamic Antenna Communication System And Network Technologies (CSNT), 2012 International.
14. Mahender Singh ,Rajveer S Yaduvanshi, Arti Vaish", Design for enhancing Gain in Multimodal Cylindrical Dielectric Resonator Antenna (INDICON), 2015 Annual IEEE pages 1-4.
15. S Singh, Rajveer S Yaduvanshi," Gain And bandwidth Enhancement of Aperture Coupled Rectangular DRA.(ICCCNT) 2013.
16. Rajveer S Yaduvanshi, H. Parthasarathy" Precision Solution of Boltzmann Transport Equation With EM Through Plasma (I- Society) 2010 International Conference.
17. RAJVEER S YADUVANSHI," Investigations into Polarizations in Dielectric Resonator Antenna ,Springer OWT 2018,volume 1 issue 1 pages 322-326.
18. . Rajveer S Yaduvanshi, " Stacked MHD Antenna design", Ansal University, 2013.
19. . Rajveer S Yaduvanshi, "FET integrated MHD antenna" Ansal University 2013
20. . Rajveer S Yaduvanshi , "Hybrid MHD antenna for high gain and bandwidth" 2013
21. .Rajveer S Yaduvanshi , "Solution of Boltzmann Transport Equation": MATEIT , DU, 2010.
22. Rajveer S Yaduvanshi, "High Gain Hybrid Reconfigurable MHD antenna" IMARS Jodhpur" 2014
23. Rajveer S Yaduvanshi, "Transport parameters evaluation of 2D and 3D NMOS" EMANTHAN, Gwalior 2010
24. Rajveer S Yaduvanshi, Mahender singh, Piyush Sharma " Analytical Computation of Resonant frequency of rectangular Dielectric Resonator Antenna by including effective dimensions of DRA" Wireless Personal Communications, Springer 2018
25. Rajveer S Yaduvanshi, Harish Parthasarathy, Ashok De "Magneto-Hydrodynamic Antenna Design and Development Analysis with prototype" IJACSA 2011/2.

	Name of Membership	Affiliating/Granting Institution/Organization
1	Fellow	IETE Delhi(F211844)
2	ISTE	LM124117

Ph.D Guidance : Awarded FIVE PhDs to research scholars and six in progress.

Rajveer S Yaduvanshi

Prof. Rajveer S Yaduvanshi
Professor , ECE Department , NSUT , Delhi

