

Dr. Manas Midya

Former PhD Scholar

Department of Electronics and Telecommunication Engineering
Indian Institute of Engineering Science and Technology, Shibpur
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CURRENT POSITION

Former PhD Scholar at Department of Electronics and Tele-communication Engineering, Indian Institute of Engineering Science and Technology, Shibpur.

RESEARCH INTERESTS

Wide-angle beam scanning CP antennas with high gain, MIMO antenna design for millimetre-wave applications.

EDUCATION

Indian Institute of Engineering Science and Technology (IEST) Shibpur, Howrah, India

Ph.D, Electronics & Tele-communication Engineering

Reg. August 2016 - January 2021

- Thesis: *Design and Implementation of Multiband and Broadband Circularly Polarized Planar Antennas.*
- Advisor: Dr. Monojit Mitra.

Indian Institute of Engineering Science and Technology (IEST) Shibpur, Howrah, India

M.Engg., Electronics & Telecommunication Engineering

July 2012 - July 2014

Specialization: Microwave Communication.

- M.Engg Project: *Thermal analysis and Heat sink Design of an IMPATT Diode.*
- Advisor: Dr. Monojit Mitra.
- CPI: 80.83%.

Jalpaiguri Government Engineering College (JGEC), Jalpaiguri, India

B.Tech., Electronics & Communication Engineering

July 2005 - May 2009

- CPI: 7.46/10.

RESEARCH ARTICLES

Journals

1. **Manas Midya** and Monojit Mitra, "High gain circularly polarized MIMO antenna for UWB application", **IEEE Transactions on Antennas and Propagation**, Under Preparation. (**SCI, IF: 4.371**)
2. **Manas Midya**, Anumoy Ghosh, and Monojit Mitra, "Meandered line loaded circularly polarized square slot antenna with an inverted-L shaped feedline for C-band applications", **IET Microwaves, Antennas and Propagation**, Review submitted. (**SCI, IF: 1.972**)
3. **Manas Midya**, Shankar Bhattacharjee, and Monojit Mitra, "Triple-band dual-sense circularly polarized planar monopole antenna", **IET Microwaves, Antennas and Propagation**, vol. 13, no. 12, pp. 2020 – 2025, Oct. 2019. (**SCI, IF: 1.972**)
4. **Manas Midya**, Shankar Bhattacharjee, and Monojit Mitra, "Broadband Circularly Polarized Planar Monopole Antenna with G-Shaped Parasitic Strip", **IEEE Antennas Wireless Propag. Lett.**, vol. 18, no. 4, pp. 581 – 585, Apr. 2019. (**SCI, IF: 3.726**)
5. **Manas Midya**, Shankar Bhattacharjee, and Monojit Mitra, "A pair of grounded-L strips loaded broadband CP square slot antenna with enhanced axial ratio bandwidth", **Electronics letters**, vol. 54, no. 15, pp. 917 – 918, 2018. (**SCI, IF: 1.680**)

6. **Manas Midya**, Shankar Bhattacharjee, and Monojit Mitra, “CPW-Fed Dual-band Dual-sense Circularly Polarized Antenna for WiMAX Application”, **Progress In Electromagnetics Research Letters**, vol. 81, pp. 113 – 120, 2019. (SCIE)
7. **Manas Midya**, Shankar Bhattacharjee, Goutam Kumar Das, and Monojit Mitra, “Dual-band dual-polarized compact planar monopole antenna for wide axial ratio bandwidth application”, **Int J RF Microw Comput Aided Eng.**, vol. 30, no. 5, e22152, May. 2020. (SCI, IF: 1.528)
8. **Manas Midya**, Anupa Chatterjee, and Monojit Mitra, “A Printed CPW-FED Ultra-wideband Planar Inverted-F Antenna”, **International Journal Of Microwave And Optical Technology**, vol. 15, no. 1, pp. 51 – 57, Jan. 2020. (SCOPUS)
9. **Manas Midya**, Shankar Bhattacharjee, and Monojit Mitra, “Circularly polarized planar monopole antenna for ultrawideband applications”, **Int J RF Microw Comput Aided Eng**, vol. 29, no. 11, e21918, Nov. 2019. (SCI, IF: 1.528)
10. **Manas Midya**, Shankar Bhattacharjee, and Monojit Mitra, “Compact CPW-Fed Circularly Polarized Antenna for WLAN Application”, **Progress In Electromagnetics Research M**, vol. 67, pp. 65–73, 2018. (SCIE)
11. Anupa Chatterjee, **Manas Midya**, Laxmi Prasad Mishra, and Monojit Mitra, “Branch line strip loaded compact printed inverted-F antenna (IFA) for penta-band applications”, **Int. J. Electron. Commun. (AEÜ)** 124 (2020) 153340. (SCI, IF: 2.924)
12. Anupa Chatterjee, **Manas Midya**, Laxmi Prasad Mishra, and Monojit Mitra, “Compact Dual Polarised Branch-Line Printed Inverted-F Antenna Covering Both Cellular and Non-Cellular Bands with Independent Tuning”, **Progress In Electromagnetics Research C**, vol. 101, pp. 95 – 104, 2020. (SCOPUS)
13. Shankar Bhattacharjee, **Manas Midya**, Monojit Mitra, and S.R. Bhadra Chaudhuri, “Dual band-dual polarized planar inverted F-antenna for MBAN applications”, **International Journal of Microwave and Wireless Technologies, Cambridge university press**, vol. 11, no. 1, pp. 76 – 86, 2019. (SCI, IF: 0.976)
14. Shankar Bhattacharjee, **Manas Midya**, S.R. Bhadra Chaudhuri, and Monojit Mitra, “Design of a miniaturized dual-band textile antenna using modal analysis for on-body applications”, **Journal of Electromagnetic Waves and Applications**, vol. 32, no. 18, pp. 2415 – 2430, 2018. (SCI, IF: 1.373)

Conferences

1. **Manas Midya**, Shankar Bhattacharjee, Anupa Chatterjee, and Monojit Mitra, “A Compact Circularly Polarized Open Slot Antenna for WLAN applications”, *IEEE InCAP*, Ahmedabad, Gujrat, India., Dec. 2019.
2. **Manas Midya**, Shankar Bhattacharjee, Anupa Chatterjee, and Monojit Mitra, “Dual Band Octagonal Slot Antenna for Wireless Communications”, *IEEE InCAP*, Aurangabad, India, Dec. 2017.
3. **Manas Midya**, Shankar Bhattacharjee, , Sankarapu Teja, and Monojit Mitra, “A Compact Narrow Half-Ring and Rectangular Patch Antenna for Dual Band Operations”, *12th International Conference on Microwaves, Antenna, Propagation and Remote Sensing (ICMARS)*, Jodhpur, India, Feb. 2017.

SHORT COURSE/WORKSHOPS ATTENDED

- Short Course on Electromagnetic Metamaterials: Microwave-Infrared-Optical Applications
Organized by Department of Electrical Engineering and Physics, Indian Institute of Technology Kanpur (IIT Kanpur), 19 – 23 Sep., 2019.
- A Workshop on Electromagnetics and Antenna Design
Organized by Department of Electronics Engineering, Indian Institute of Technology (IIT BHU), 23–27 May, 2018.

- A Workshop on RF Radiation Hazards and Solutions
Organized by International Centre for Radio Science, Jodhpur, 14 February, 2017.
- Short Course on Low Loss and Efficient Antennas
Organized by Department of Electronics and Electrical Communication Engineering, Indian Institute of Technology Kharagpur (IIT Kharagpur), 12 – 16 September, 2016.
- A Workshop on Design and Analysis of Millimeter Wave Circuits
Organized by Department of Electronics and Telecommunication Engineering, Jadavpur University (JU), 8 – 10 September, 2016.

PEER REVIEWING

- **Project:** Icelandic Research Fund (*IRF*).
- **Journals:** IET Microwaves, Antennas and Propagation, AEU - International Journal of Electronics and Communications, Wiley - International Journal of RF and Microwave Computer (*RFCAD*), Cambridge - International Journal of Microwave and Wireless Technologies (*IJMWT*), Journal of Electromagnetic Waves and Applications.
- **Conferences:** IEEE InCAP (2018, 2019), IEEE IMARC (2017, 2018), IEEE ICCECE (2018, 2019), IEEE CALCON (2018, 2019) and CECNet (2019, 2020).

EXPERIENCE

- **Research Scholar**
Indian Institute of Engineering Science and Technology (IIST) Shibpur. (Aug. 2016 - Jan. 2021)
Host: Prof. Monojit Mitra
- **Assistant Professor**
Techno India University (Aug. 2014 - Aug. 2016)
- **RF Engineer**
Unitech Wireless Pvt. Limited (June. 2009 - July. 2012)
- **Teaching Assistance**
 - Undergraduate Basic Electronics course tutorial and laboratory (Fall 2014, 2016, 2017, 2018) and Microwave and Radar Communication laboratory course (Fall 2016, 2017, 2018, 2019 in IIST Shibpur.
 - Undergraduate Basic Electronics Course, Analog Electronics course, Digital Electronics Course, Circuit Theory course, Electromagnetic Field Theory course, Transmission Line and Antenna course (Fall 2014 – 2016) in Techno India University.
 - Masters Microwave Devices course, Satellite Communication course (Fall 2014 – 2016) in Techno India University.

ACHIEVEMENTS

- Received Young Scientist Awards on Engineering Science and Medicine 2020.
- Graduate Aptitude Test in Engineering (GATE) qualified in 2012, 2013, 2014.
- Awarded scholarship from Ministry of Human Resource Development, Government of India for performance in
 - Institute scholarship for Ph.D.
 - GATE 2012.
- Merit-cum-Means scholarship by Govt. of West Bengal 2005 – 2009.

REFEREES

- Prof. Monojit Mitra
Department of Electronics and Tele-communication Engineering
Indian Institute of Engineering Science and Technology (IEST) Shibpur
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