Dr. Bidisha Dasgupta
Associate Professor
PhD (Institute of Radio Physics and Electronics, University of Calcutta)
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Joined the Institute in July 2014

Research Interests

Wideband and Ultra-wideband Antennas, Reconfigurable Antennas, Dielectric Resonator Antennas, Printed Antennas, Frequency selective surfaces

Teaching

Theory Courses: Electrical Circuit Analysis (EC 102), Basic Electronics Circuits (EC 103), Analog Circuits (EC 201), Electromagnetics (EC 370), Microwave Engineering (EC371), Antennas and Wave Propagation (EC471) Laboratory Courses: Basic Electronics Lab (EC 111), Analog Circuits Lab (EC 202), Microwave Engineering Lab (EC 372)

Publication

Journal

- Anett Antony and Bidisha Dasgupta, "Design and Analysis of a Frequency Selective Surface Loaded Bioinspired Antenna in Frequency and Time Domains,", Progress in Electromagnetics Research M,Vol. 116, (2023), pages. 39-52,
- Anett Antony, Sayantani Dutta, Bidisha Dasgupta and Anamiya Bhattacharya, "Reconfigurable Frequency Selective Surfaces for X Band Applications", Progress in Electromagnetics Research C,Vol. 132, (2023), pages. 79-88,
- Anett Antony and Bidisha Dasgupta, "Isolation and Gain Improvement of Multiple Input Multiple Output Antenna Using Frequency Selective Surfaces", Progress in Electromagnetics Research Letters,Vol. 110, (2023), pages. 63-71,
- Anamiya Bhattacharya, Bidisha Dasgupta, and Rajeev Jyoti, "A Simple Frequency Selective Surface Structure for Performance Improvement of Ultra-Wideband Antenna in Frequency and Time Domains", International Journal of RF-Microwave Computer-Aided Engineering (Wiley), (2021), pages. 1-13,
- Anamiya Bhattacharya, Bidisha Dasgupta, and Rajeev Jyoti,, "Design and Analysis of Ultra-thin X-Band FSS Structure for Gain Enhancement of Hybrid Antenna", International Journal of RF-Microwave Computer-Aided Engineering (Wiley), (2020), pages. 1-12,
- Abhilash Goswami, Anamiya Bhattacharya, and Bidisha Dasgupta, "Reconfigurable Hexagon Shaped Printed Antenna for Cognitive Radio Application", International Journal of RF-Microwave Computer-Aided Engineering (Wiley), (2020), pages. 1-13,
- Anamiya Bhattacharya, Bidisha Dasgupta, and Rajeev Jyoti, "Performance Analysis of a Hybrid Dielectric Resonator Antenna in Frequency and Time Domains", International Journal of RF-Microwave Computer-Aided Engineering, Wiley, (2019), pages. 1-12,
- D. Guha, B. Gupta and Y.M.M Antar, "Hybrid Monopole-DRAs using Hemispherical/ Conical-Shaped Dielectric Ring Resonators: Improved Ultra-Wideband Designs", IEEE Transactions on Antennas and Propagation,Vol. 60,No. 1, (2012), pages. 393-398,
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Conference

- Prakash and B. Dasgupta, "Dielectric Resonator Loaded U-shaped Printed Hybrid Antenna for Multiband Wireless Applications", 2022 IEEE Microwaves, Antennas, and Propagation Conference (MAPCON), Bangalore, India,, (2022), pages. 764-769,
- A. Antony, B. Dasgupta and S. P. Janjarla, "Effect of Pulse Width on Various Performance Parameters of UWB Antenna in Time Domain Analysis", 2022 IEEE Microwaves, Antennas, and Propagation Conference (MAPCON), Bangalore, India, (2022), pages. 881-885,
- Anett Antony, Bidisha Dasgupta, "A Simple Frequency Selective Surface Based Reflector for UWB Applications", 2022 IEEE Microwaves, Antennas, and Propagation Conference (MAPCON), Bangalore, India,, (2022), pages. 861-865,
- Anett Antony, Bidisha Dasgupta, "Lotus Shaped Printed Antenna for UWB Applications", IEEE 18th India Council International Conference (INDICON), (2021),
- Divyanshu Bhardwaj, A. Bhattacharya and B. Dasgupta, "A Compact Reconfigurable Slot-Loaded Printed Antenna for Future Wireless Applications", Twenty Seventh National Conference on Communications (NCC-2021),, (2021), Virtual Conference
- Sukanya Baruah, Bidisha Dasgupta, "Reconfigurable Composite Printed Antenna for Cognitive Radio Application", IEEE National Conference on Emerging Trends on Sustainable Technology and Engineering Applications (NCETSTEA), (2020), Dr. B. C. Roy Engineering College, Durgapur, West Bengal, India
- Sai Pranay Janjarla, Bidisha Dasgupta, "Star Shaped Broadband Printed Antenna with U-Shape Ground Plane", IEEE National Conference on Emerging Trends on Sustainable Technology and Engineering Applications (NCETSTEA), (2020), Dr. B. C. Roy Engineering College, Durgapur, West Bengal, India
- A. Goswami, B. B. Pathak and B. Dasgupta,, "Dielectric Resonator Loaded Printed Antenna for Cognitive Radio Application", 2019 IEEE Indian Conference on Antennas and Propogation (InCAP), Ahmedabad, India, (2019), pages. 1-4,
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- Anamiya Bhattacharya , G.V.S.S.Ganesh, B. Dasgupta, Rajeev Jyoti, "Performance Improvement of Monopole Loaded Hybrid Dielectric Resonator Antenna by using Sleeve-like Structure", IEEE Indian Conference on Antennas and Propagation (InCAP), (2018), Hyderabad, India
- B B Pathak , G.Kalita, M. P. Barooah, S. Chiranjeevi, B. Dasgupta,, "A Novel Printed Monopole Antenna for Broadband Applications", IEEE Indian Conference on Antennas and Propagation (InCAP), (2018), Hyderabad, India
- Anamiya Bhattacharya,Bidisha Dasgupta, "A Simple Frequency Reconfigurable Monopole Antenna for Ultra-Wideband Applications", International Union of Radio Science (URSI-RCRS 2017), Tirupati, 1 4 March, (2017),
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- P. Gupta, B. Gupta and D. Guha, "Composite Cylindrical Dielectric Resonator Antenna for Radiation Pattern Diversity", Regional Conference on Radio Science,2-5 January, (2014), Pune, India
- D. Guha, B. Gupta and Y.M.M Antara, "Hybrid monopole-DRA: new geometries for improved ultra-wideband operation", Dig. IEEE Antennas and Propagation Symposium, (2010), Toronto
- D. Guha, B. Gupta and Y.M.M Antar, "Quarter of Hemispherical Dielectric Resonator: New Geometry Explored to Design a Wideband Monopole-Type Antenna", XXIXth URSI General Assembly,7-16 August,, (2008), Chicago, USA

Book Chapters

- Barman M.P., Dasgupta B, Bera R., Sarkar S., Singh O., Saikia H., "Novel Composite Dielectric Resonator Antenna for 5G Applications", Advances in Communication, Devices and Networking,Lecture Notes in Electrical Engineering,vol 537, (2019), pages. 151-158, Springer, Singapore,(chapter DOI:10.1007/978-981-13-3450-4_17)
- Aakansha and B. Dasgupta,K. Ray, S.N. Sharan, S. Rawat, S.K.Jain, S. Srivastava, A. Bandyopadhay, "A Simple Printed Antenna for C-Band Applications", Engineering Vibration, Communication and Information Processing,Vol. 478, (2018), pages. 451-458, Springer,(chapter DOI: 10.1007/978-981-13-1642-5_40)

Inviting Talks

- "On Some Wide Band and Ultra Wide Band Dielectric Resonator Antennas", Delivered in Symposium on "Next G Communication: Are we ready?, (2017), at Assam Don Bosco University

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