

Curriculum Vitae

Name: Rajib Jana

Date of Birth: 13.05.1984

Present Position: Asst. Prof. of Electrical Engineering, NIT Arunachal Pradesh.

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Educational Qualifications:

B. Tech. (Electronics and Communication Engineering) (Kalyani Govt. Engg. College/W. B. U. T)

M. Tech. (Digital Signal Processing) (I. I. T. Guwahati)

Ph. D. (Antenna and Microwave) (I. I. T. Guwahati) (Thesis Title: **Analysis and Design of Matched Feeds for Offset Parabolic Reflector Antennas using Analytical and Numerical Techniques**, URI: <http://gyan.iitg.ernet.in/handle/123456789/795>)

Research Interests: Reflector Antennas, Matched feeds, Multi-mode Horns, Ultra Wideband Antennas, Advanced Numerical techniques for EMC. Wireless Charging.

Journal Publications:

1. R. Jana and R. Bhattacharjee, "Matched feed design employing TE₀₁ and TM₁₁ modes in a smooth walled rectangular waveguide for cross-polar reduction in offset reflector antenna systems," AEIU International Journal of Electronics and Communications, vol-69, pp. 873 - 877, 2015.
2. R.Jana and R.Bhattacharjee, "A Novel Matched Feed Structure for Achieving Wide Cross-polar Bandwidth for an Offset Parabolic Reflector Antenna System," IEEE Antenna and Wireless Propagation Letters, vol-14, pp. 1590-1593, 2015.
3. R.Jana and R.Bhattacharjee, "Wideband Matched Feed Design Employing Conjugate Field Radiated from a Square Choke Excited by Two Slots on a Diagonal Waveguide," Progress In Electromagnetics Research vol-63, pp. 23-31.

Conference Publications:

1. R. Jana and R. Bhattacharjee, "Analysis of waveguide junctions using mode matching technique," in IEEE Applied Electromagnetics Conference (AEMC), pp.1-4, 18-22 Dec. 2011.
2. R. Jana and R. Bhattacharjee, "Analysis of horn antennas including the horn transition into half space employing a full wave hybrid technique," in IET International Radar Conference, pp.1-4, 14-16 April 2013.
3. R. Jana and R. Bhattacharjee, "Analysis of Scattering Parameters of a Stepped Cylindrical Horn containing inner Posts using MM and 2-D FEM," in Twentieth National Conference communications (NCC), pp.1-6, Feb. 28 2014-March 2 2014.

4. R. Jana and R. Bhattacharjee, "A Tri-mode Low Cross-polarized Circular Matched Feed for Offset Reflector Antenna System," in Twenty First National Conference communications (NCC), pp.1-6, Feb. 27 2015-March 1 2015.
5. R. Jana and R. Bhattacharjee, "A Hybrid Numerical Technique to Investigate the Performances of Offset Reflector and Matched Feed," in IEEE Applied Electromagnetics Conference (AEMC), 18-21 Dec. 2015, accepted.
6. H. Katiyar, R. Jana and R. Bhattacharjee, "Performance analysis of two-hop regenerative relay network with generalized selection combining at multi-antenna relay," *India Conference (INDICON), 2010 Annual IEEE*, Kolkata, 2010, pp. 1-4.
7. N. Agarwal, R. Bhattacharjee and R. Jana, "Modeling of reflection and transmission of signal through building wall for a point source UWB transmitter," *Ultra-Wideband (ICUWB), 2011 IEEE International Conference on*, Bologna, 2011, pp. 531-535.
8. N. Kumar Reddy and Rajib Jana, "A novel CPW-fed palm hand type antenna for UWB applications," 2017 International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET), 2017, pp 1568-1571.

Project: Bi-direction charging for portable devices sponsored by **TEQIP** working as a **PI** from July, 2019 for two years.

Courses Taught and Lab Conducted:

I am employed in the electrical department of NIT Arunachal Pradesh since 2016. I have taught, coordinated and developed a number of bachelor's and master's courses within the department.

- **Courses taught:** Introduction to microprocessors and microcontrollers (EE-404), Computer Aided Design using numerical techniques (EE-601), Electromagnetic and Field Theory (PHY-301), Circuit Theory and Networks (EE-301), Signals and Systems (EE-302), Embedded system (EE-504)
- **Lab Conducted:** Introduction to microprocessors and microcontrollers (EE-404). Circuit Theory and Networks (EE-301), Computer Aided Design using numerical techniques (EE-601).

Students:

B.Tech Project	M.Tech Project	P.hD
4 groups are completed	2 students are completed	3 students are enrolled