

PUBLICATIONS

Journals :

1. A fresh consideration on the choice of radiometer operating frequency in atmospheric remote sensing, S.K. Datta and A.K. Sen, *Int. J. Remote Sensing*, Vol.15, No.11, pp.2167-2174, 1994.
2. Shift of Millimeterwave window frequencies in relation to Tropospheric Radio Meteorological parameters, A.K. Sen, A. Mitra, S.K. Datta, R. Bera and S. Swarup, *Int. J. Infrared and Millimeter Waves*, Vol.13, No.8, pp.1183-1203, 1992.
3. EMI/EMC in microwave and millimeter wave receivers, A.K. Sen, R. Bera, M.K. Sengupta, S.K. Datta, G. Tarafdar, A. Mitra, S.S. Dey, J.S. Sehra, S.N. Ghosh and O.P.N. Calla, *IETE Technical Review*, Vol.17, No.2, 1990, pp.120-125.
4. Observation of microwave radio sun during total solar eclipse on October 24, 1995 by Eastern Centre for Research in Astrophysics (ECRA), T. N. Chatterjee, S. K. Datta, Ajay K. Datta et al., *Indian J. Phys.* 70B (3), pp.169-173, 1996.
5. On Water vapour distribution and Transport in the Antarctic Atmosphere, S.K. Datta and A.K. Sen, *Indian J. Physics*, (Accepted).
6. A proposal on millimeter wave communication system at Antarctica, S.K. Datta, A.K. Sen, and A.K. Datta, *Int. J. Infrared and Millimeter-waves* (Communicated).

Reports :

1. Calibration of millimeter wave radiometers. Tech. Report No. RPE-8, Dec. 1988.
2. Development of millimeter wave radio links, Tech Report No. RPE-13, Dec 1989.

Conference/Symposia/Seminar/Workshop :

1. EMI in the IF chain of microwave and millimeter wave receivers, presented at the 2nd International Conference on EMI/EMC, held at LRDE, Bangalore, 1990.
2. A comparative study of propagation characteristics at 94 GHz over a long and short path, presented at National Space Science Symposium-1990, held at Nagpur.
3. Lightning discharge monitoring and EMI from simultaneous observation of atmospheric in the time and frequency domain, presented at National Space Science Symposium-1990, Nagpur.
4. Rain attenuation at Millimeter wavelength for the Earth Space path as Obtained from a Simple Model and Radiometric Observation, presented by co-author at International Conference on Millimeter Wave & Microwave, held at DEAL, Dehra Dun, published by Tata-McGraw Hill, 1990.
5. Variability of Atmospheric Window Frequencies for Millimeter Propagation in Indian Subcontinent, presented by co-author at 3rd International Symposium on Recent Advances in Microwave Technology (ISRAMT'91) held at Reno. Nevada, USA, Aug, 1991.
6. Radiometric studies of tropospheric water vapour over Antarctica, accepted for oral presentation at 1993 International Symposium on Radio Propagation (ISRP'93) held at Beijing, China in Aug.1993.

7. Remote Sensing of Tropospheric Water Vapour at Antarctica : A Fresh Approach by 22.235 GHz radiometer accepted for oral presentation at International Conference on Millimeter and Submillimeter waves and Applications held at California, USA between 10-14 Jan.1994
8. Tropospheric water vapour studies at Antarctica with 22.235 GHz radiometer presented at 8th National Space Science Symposium (NSSS-94) held at Vikram Sarabhai Space Centre, Thiruvanthapuram, between 20-24, Dec 1994.
9. Passive radiometric measurements of moisture content of soil and vegetation, A.K. Sen, M.K. Sengupta, S.K. Datta, O.P.N. Calla, S.S. Rana, Proc. of the 7th URSI open symposium, Ahmedabad, India, between 20-24 Nov.1995.
10. Cellular Mobile Radio Communication in Indian Metropolises and their neighbourhoods. J. Bera, S. K. Datta, R. Bera, A. Maitra, A. K. Datta, A. K. Sen, S. K. Chakraborty, A. K. Mukherjee. Frontiers of Radio Science Proceedings. INCURSI-96, Calcutta and Burdwan, 16-20 Jan 1996, pp.VIII 23-28.