

Dr RM Jha: *List of Publications*

Books

1. K.J. Vinoy and R.M. Jha, *Radar Absorbing Materials: From Theory to Design and Characterization*. Kluwer Academic Publishers, Norwell, Boston, USA, (ISBN: 0792 397 533), 209 p., 1996.
2. R.M. Jha and P.R. Mahapatra, *Ray Tracing over Generalized Surfaces. (A Comprehensive Handbook; Under Progress)*.

Journal Papers

3. R.M. Jha and W. Wiesbeck, "Geodesic Constant Method: A novel approach to analytical surface-ray tracing on convex conducting bodies," *IEEE Antennas and Propagation Magazine*, vol. 37, no. 2, pp. 28-38, Apr. 1995. (*Review Paper*).
4. K.J. Vinoy and R.M. Jha, "Trends in radar absorbing material (RAM) technology," *Sadhana*, India, vol. 20, Pt. 5, pp. 815-850, 1995 (*Invited Review Paper*).
5. R.M. Jha, P.R. Mahapatra and W. Wiesbeck, "Surface-ray tracing on hybrid surfaces of revolution for UTD mutual coupling analysis," *IEEE Transactions on Antennas and Propagation*, vol. 42, pp. 1167-1175, Aug. 1994.
6. R.M. Jha, S.A. Bokhari and W. Wiesbeck, "A novel ray-tracing on general paraboloids of revolution for UTD applications," *IEEE Transactions on Antennas and Propagation*, vol. 41, pp. 934-939, July 1993.
7. R.M. Jha, D.J. Edwards and V. Sudhakar, "Novel geodesic splitting on paraboloid of revolution with applications to ray-theoretic analysis," *Electronics Letters*, UK, vol. 28, pp. 701-702, Apr. 1992.
8. R.M. Jha and P.R. Mahapatra, "A geodesic constant method for computing high-frequency mutual coupling between antennas on general quadric cylinders," *Archiv fur Elektrotechnik*, FRG, vol. 75, pp. 231-235, Mar. 1992.
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11. R.M. Jha, "Surface ray tracing on convex quadrics with applications to mutual coupling between antennas on aerospace bodies," *Journal of Indian Institute of Science*, vol. 70, pp. 29-31, Jan.-Feb. 1990.
12. R.M. Jha, S.A. Bokhari, V. Sudhakar and P.R. Mahapatra, "Ray analysis on a class of nondevelopable satellite launch vehicles," *Electronics Letters*, UK, vol. 24, pp. 22-23, Jan. 1988.

13. R.M. Jha, S.A. Bokhari, V. Sudhakar and P.R. Mahapatra, "Ray analysis on a class of hybrid cylindrical aircraft wings," *Electronics Letters*, UK, vol. 24, pp. 21-22, Jan. 1988.
14. R.M. Jha, V. Sudhakar and N. Balakrishnan, "Ray analysis of mutual coupling between antennas on a general paraboloid of revolution (GPOR)," *Electronics Letters*, UK, vol. 23, pp. 583-584, May 1987.
15. S.M. Vaitheeswaran and R.M. Jha, "CFD-CEM linkage: An electromagnetic perspective," *Journal of the Aeronautical Society of India*, vol. 52, no. 3, pp. 175-179, August 2000.
16. R.U. Nair and R.M. Jha, *Electromagnetic Design and Analysis of A-Sandwich Hybrid Variable Thickness Radome*, (Under Communication).

Papers in Conference Proceedings

17. J. Sunithamma, R.U. Nair, and R.M. Jha, "Optimization of high performance constant thickness radome for aerospace vehicles," *IEEE AP-S International Symposium 2004*, Monterey, CA, USA, pp. 870-873, June 20-25, 2004.
18. R.U. Nair, and R.M. Jha, "Tuning of EM performance for streamlined aircraft radomes," *IEEE AP-S International Symposium 2004*, Monterey, CA, USA, pp. 874-877, June 20-25, 2004.
19. R.U. Nair, and R.M. Jha, "Novel design for a monolithic hybrid variable thickness radome (*hy-VTR*)," *IEEE AP-S International Symposium 2004*, Monterey, CA, USA, pp. 878-881, June 20-25, 2004.
20. R.U. Nair, and R.M. Jha, "EM performance analysis of an A-sandwich cone-ogive hybrid variable thickness radome," *IEEE AP-S International Symposium 2004*, Monterey, CA, USA, pp. 882-885, June 20-25, 2004.
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23. R.M. Jha and R. Janaswamy, "Microwave propagation over sea surfaces at low grazing angles," *IEEE AP-S International Symposium and URSI Radio Science Meeting 2001*, Boston, MA, pp. 375, July 8-13, 2001.
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25. K.J. Vinoy and R.M. Jha, "Parallelization strategies for the UTD codes," *IEEE AP-S International Symposium 1995*, Newport Beach, CA, USA, pp. 1926-1929, June 18-23, 1995.

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