PUBLICATIONS

RESEARCH PAPERS

1. *On the Images of Tori under Degree One Maps,* Journ. Indian Math. Soc. 39 (1975) pp. 227-243.

2. *On Non-approximability of $K(\pi, n)$ Spaces by Homogeneous Spaces,* Journ. Math. Kyoto Univ. Vol. 16, No. 3 (1976) pp. 675-682.

3. *Sums are not Products,* Journ. London, Math. Soc. (2) 15 (19778) pp. 361-368.

4. *A Splitting Theorem for Surfaces,* (With H. Hendriks) *Topological Structures II* Proc. Symp. in Amsterdam, Oct-Nov, 1978.

5. *Kinks In General Relativity,* (With J. G. Williams, and P. Zvengrowski) Int. Journ. Th. Ph. Vol. 19, No.1, (1980) pp. 1-23.

6. *Some Cancellation Theorems in Group Theory,* Journ. Austral. Math. Soc. (Series A) 30 (1989) pp. 87-97.

7. *Degree One Maps and a Realization Problem,* Can. Journ. Math. Vol. 34, No. 4 (1982).

8. *The Fundamental Group at Infinity of Affine Surfaces,* (With R.V. Gurjar) Composito Math. Vol.54 (1985) pp. 95-104.

9. *Covering Spaces of Elliptic Surfaces,* (With R.V. Gurjar) Composito Math. Vol. 54 (1985) pp. 95-104.

10. *A Topological Characterization of $\mathbf{C}/\mathbf{G}$.* (With R.V. Gurjar) Journ. Math. Kyoto Univ. Vol. 25 (1985) pp. 95-104.

11. *Divisors with Finite Local Fundamental Groups on a Surface,* Proc. Symp. in Pure Math. Vol. 46 (1987) pp. 467-481.

12. *Compact Structures on $\mathbf{C}^* \times \mathbf{C}^*$,* Tohoku Math. Journ. II Series, Vol. 40, No.1, (1988) pp. 35-49.

13. *On the Rationality of Complex Homology 2-cells - II,* (With R.V. Gurjar), Journ. Math. Soc. Japan, Vol. 41, No.1, (1989) pp. 37-56.

14. *On the Rationality of Complex Homology 2-cells - II,* (With R.V. Gurjar) Journ. Math. soc. Japan, Vol. 41, No.2, (1989) pp. 177-212.

15. *A Discriminant Criterion for the Two Dimensional Jacobian Conjecture,* Osaka, Journ. Math. Vol. 27, No. 1, (1990), pp. 217-221.

16. *Type of 3-manifolds and Addition of Relativistic Kinks,* (With P. Zvengrowski), Reviews in Math. Ph. Vol. 3, No.4, (1991), pp. 467-478.

17. *Polynomial Representation of Knots,* Tohoku Math. J. 4 (1992) pp. 11-17.

18. *On rationality of Logarithmic $\mathbb{Q}$-homology planes–I,* (With C. R. Pradeep) Osaka Journ. Math. Vol. 34 No. 2 (1997) pp 429-456

19. *On rationality of Logarithmic $\mathbb{Q}$-homology planes–II,* (With R. V. Gurjar and C. R.Pradeep) Osaka Journ. Math. Vol. 34, (1997) pp. 725-743

BOOKS

1. *An Introduction to Complex Analysis,* Macmillan India Limited, 1999.
2. *Basic Complex Analysis of One Variable,* Macmillan India Limited, 2011.
3. *Elements of Differential Topology*, CRC Press, 2011.

Expository Articles

1. *In Praise of Gauss Elimination Method (GEM),* Bulletin of Bombay Math. Colloq. Vol 12: No. 2-3 July 1996.
2. *Complex Numbers and Plane Geometry* Bona Mathematica, Vol 14. No.1-2, March-June 2003, pp 3-16.
3. *Topology of Open Algebraic Surfaces: around a landmark result of C. P. Ramanujam* An article in **Connected at Infinity**, *a Selection of Mathematics by Indians* ed. R. Bhatia, TRIM Series Vol. 25, Hindustan Book Agency, 2003
4. *Topology of Affine Algebraic Surfaces,*an article in the Monograph **Affine Algebraic Geometry** in Honor of M. Miyanishi, ed. T. Hibi, (To appear in Autumn 2006).

OTHERS

1. Organized NBHM sponsored Instructional Conference on Combinatorial Topology and Algebra, at our department during Dec. 1993. (One of the best achievements of this conference was the preparation of pre-lecture notes jointly done with my colleagues S. R. Ghorpade, M.K. Srinivasan and J. K. Verma. These notes will be published by the NBHM in due course.
2. Regularly subscribe to Math. Reviews since 1985.
3. Have written several review articles popular articles etc. in other mathematical journals also.