

List of a few Research Papers involving the use of ULTRASONIC INTERFEROMETER

(Manufactured by Mittal Enterprises, New Delhi – 8, India)

1. PREDICTION OF MOLECULAR RADIUS OF LIQUIDS FROM DENSITY, REFRACTIVE INDEX AND SOUND VELOCITY MEASUREMENTS - *T. M. Aminabhavi, M. I. Aralaguppi, S. B. Haragopad and R. H. Balundgi*. Indian Journal of Technology, 31(1993), 32.
2. COMPRESSIBILITY, FREE LENGTH AND MOLAR AND AVAILABLE VOLUME IN TERNARY LIQUID SYSTEMS - *S. Singh, R. Singh, N. Prasad and S. Prakash*, Indian Journal of Pure and Applied Physics, 629 (1977).
3. STAKING IN SOLUTIONS BY ULTRASONIC METHOD – *K. Ramaswamy and D. Ambanathan*, Acoustica, 51(1982), 190.
4. ULTRASONIC STUDIES OF MOLECULAR INTERACTION IN THE SOLUTIONS OF LANTHANIDE SOAPS - *K. N. Mehrotra, A. S. Gahlaut and Meera Sharma*, J. Colloid Interface Sci. , 120(1987), 110.
5. THERMODYNAMIC STUDY OF MOLECULAR INTERACTIONS IN TERNARY LIQUID SYSTEMS - *B. L. Marwein and S.N. Bhat*. Thermochemica Acta, 118(1987), 277.
6. COMPARISON OF FREE LENGTH THEORY & COLLISION FACTOR THEORY FOR BINARY LIQUID MIXTURES - *V. A. Tabahane, Sharda Ghosh & S. W. Pranjale*, Indian Journal of Pure & Applied Physics, 23(1985) ,502.
7. ULTRASONIC STUDY OF GROUND WATER POLLUTION - *V. A. Thabhane*, Acta Chemica Indica, 9 (1983), 90.
8. VARIATION OF INTERNAL PRESSURE OF N-PROPANOL AT LOW TEMPERATURES UP TO 118 K: - *G. V. Suryanarayana & P. Pugazhendi*, Indian Journal of Technology, 25 (1987), 39.
9. ULTRASONIC VELOCITY OF CALCIUM SOAP SOLUTIONS - *K. N. Mehrotra and S. K. Upadhyaya*. J. Am. Oil Chemists Soc. , 65 (1988), 126 .
10. ULTRASONIC MEASUREMENTS ON THE SOLUTIONS OF LANTHANUM AND CERIUM SOAPS IN NON-AQUEOUS MEDIUM - *K. N. Mehrotra and S. K. Upadhyaya*. J. Colloid and Polymer Sci. 266(1988), 865.
11. ACOUSTIC BEHAVIOUR OF CALCIUM SOAP SOLUTIONS - *K. N. Mehrotra and S. K. Upadhyaya*. J.Am. Oil Chemists Soc. , 65(1988), 826.
12. THERMODYNAMIC AND ACOUSTICAL STUDIES ON CALCIUM SOAP SOLUTIONS - *K. N. Mehrotra and S. K. Upadhyaya*. Phys. Chem. Liq., 19(1989), 47 .
13. ULTRASONIC STUDY OF EXCESS THERMODYNAMIC PARAMETER IN BINARY MIXTURES OF CARBONDISULPHIDE - *D. C. Ratha, S. C. Mishra and K. Samal*. Journal of Acoustic Society of India,15(1987),198.

14. THERMODYNAMIC INTERACTIONS IN BINARY MIXTURES OF 2-METHOXYETHANOL WITH ALKYL AND ARYLESTERS AT 298. 15 AND 308. 15 K - *Tejraj M. Aminabhavi and Shrinivas K. Raikar*. Collect Czech. Chem. Commun. (Vol. 58) (1993) .
15. EXCESS MOLAR VOLUME, EXCESS ISENTROPIC COMPRESSIBILITY AND EXCESS MOLAR REFRACTION OF BINARY MIXTURES OF METHYL ACETOACETATE WITH BENZENE, TOLUENE., M-XYLENE, MESITYLENE AND ANISOLE - *M. I. Aralaguppi, T. M. Aminabhavi and R. H. Balundgi* Fluid Phase Equilibria 71(1992), 99 .
16. THERMODYNAMIC INTERACTIONS IN MIXTURES OF BROMO FORM WITH HYDROCARBONS - *M. I. Aralaguppi, Tejraj M. Aminabhavi, Ramchandra H, Balundgi and Shrikant S. Joshi*, J. Phys. Chem., 13(1991), 95.
17. ACOUSTIC PROPERTIES OF MIXTURES OF BROMOFORM WITH HYDROCARBONS AT 298. 15K - *T. M. Aminabhavi, M. I, Aralaguppi, S. S. Joshi, S. B. Harogopped, R. S. Khinnavar and R. H. Balung*. Indian J. Technol., 30(1992), 303 .
18. ON THE DENSITY, VISCOSITY, REFRACTIVE INDEX AND ULTRASONIC VELOCITY OF THE BINARY MIXTURES FORMED BY 1,3,5- TRIMETHYLBENZENE WITH ALIPHATIC HYDROCARBONS IN THE TEMPERATURE RANGE 298. 15 K - 308. 15 K - *S. K. Raikar, T. M. Aminabhavi and R. H. Balundgi*. Indian Journal of Technology, 31(1993), 32.
19. VOLUMETRIC, ACOUSTIC, OPTICAL AND VISCOMETRIC PROPERTIES OF BINARY MIXTURES OF 2-METHOXYETHANOL WITH ALIPHATIC ALCOHOLS(C₁ – C₈) - *T. M. Aminabhavi S. K. Raikar and R. H. Balundgi* , Industr. Eng. Chem. Res., 32(1993), 931.
20. DENSITIES, VISCOSITIES, SPEEDS OF SOUND, AND WATER SOLUBILITIES OF SOME POLYPROPYLENE ETHER GLYCOL DERIVATIVES IN THE TEMPERATURE RANGE 273. 15 TO 323. 15K - *J. P. Idoux, C. K. McCurry and T. M. Aminabhavi*, J. Chem. Eng. Data, 39(1994), 261.
21. MEASUREMENT OF ULTRASONIC ABSORPTION IN LIQUIDS WITH AN ULTRASONIC INTERFEROMETER - *S. C. Mishra, B. Saraf and K. Samal*, Acustica, 52 (1983), 256.
22. ULTRASONIC ABSORPTION STUDY IN SOME BINARY MIXTURES OF POLAR-NONPOLAR LIQUIDS - *S. C. Mishra and K. Samal*, Acoustics Letters, 7(1983), 7.
23. ULTRASONIC VELOCITY AND ABSORPTION IN POLYSTYRENE SOLUTIONS - *B. Saraf and K. Samal*, Acustica, 55(1984) , 60.
24. ULTRASONIC VELOCITY AND ABSORPTION IN RECONSTITUTED POWDERED MILK - *B. Saraf S. C. Misra and K. Samal*, Acustica, 52(1982), 40.
25. ULTRASONIC STUDY AND RAO FORMALISM IN POLYESTERENE SOLUTIONS - *B. Saraf and K. Samal*, Acoustics Letters, 7 (1984), 141.
26. ULTRASONIC VELOCITIES AND THE RAO FORMULA FOR SOLUTIONS AND POLYMER THERMODYNAMIC PROPERTIES OF METHACRYLATE IN TOLUENE - *G. V. Reddy and R. P. Singh*, Acustica, 46(1980), 229.

27. TEMPERATURE INVARIANCE OF THE RAO CONSTANT IN POLYMER SOLUTIONS AND POLYMERIC LIQUIDS - *G. V. Reddy P.A.K.Ekka, R.P. Singh*, *Acustica*, 46, 1980.
28. ULTRASONIC VELOCITIES AND RAO FORMALISM IN AQUEOUS SOLUTIONS OF POLYVINYL PYRROLIDONE - *G. V. Reddy and R. P. Singh*, *Khargpur. Acustica Vol. 46*, (1980), 341.
29. ULTRASONIC PROPAGATION, PROPERTIES OF MUSCLE TISSUES BY ULTRASONIC INTERFERMETER TECHNIQUE - *Adeel Ahmed and G. Gopalakrishnan*, *Journal of Pure and Applied Ultrasonic*, 5(1983), 11.
30. THE INFLUENCE OF ULTRASONIC ENERGY ON SEED GERMINATION - *G. G. Krishna, L. Latha and A. Ahmed*, *Journal of Pure and Applied Ultrasonic*, 3(1981), 39.
31. PHYSICO-CHEMICAL STUDIES OF SOLVENT-SOLVENT AND ION-SOLVENT INTERACTIONS IN SOLUTIONS OF LITHIUM NITRATE IN DIMETHYL-SULPHOXIDE+ETHANOL MIXTURES - *A. Ali and A. K. Nain*, *Phys. Chem. Liq.*,34(1997), 25.
32. ULTRASONIC STUDIES OF FORMAMIDE + 1,2 -ETHANEDIOL AND SODIUM IODIDE+FORMAMIDE+1,2-ETHANEDIOL MIXTURES AT 298.15 K - *A. Ali and A. K. Nain*, *Indian Journal of Pure & Applied Physics*, 35(1997), 729.
33. PARTIAL MOLAL ADIABATIC COMPRESSIBILITIES OF TRANSFER OF SOME AMINO ACIDS AND PEPTIDES FROM WATER TO AQUEOUS SODIUM CHLORIDE AND AQUEOUS GLUCOSE SOLUTIONS - *Tarlok S. Banipal and Gagandeep Sehgal*, *Thermochimica acta*, 262(1995), 175.
34. ULTRASONIC MEASUREMENTS OF SOME 1:1 ELECTROLYTES IN CHLOROBENZENE + METHANOL MIXTURES - *V. K. Syal et al.*, *Journal of Molecular Liquids*, 63(1995), 317.
35. ULTRASONIC VELOCITY MEASUREMENTS OF CARBOHYDRATES IN BINARY MIXTURES OF DMSO+H₂O AT 25 C - *V. K. Syal, S. Chauhan, R. Gautam*, *Ultrasonics* 36(1998), 619.
36. ULTRASONIC VELOCITY MEASUREMENTS OF SUCROSE IN BINARY SOLVENT MIXTURES OF WATER+ACETONITRILE AT 25, 35 AND 45°C -*V. K. Syal, R. Gautam & S. Chauhan*, *Indian Journal of Pure & Applied Physics*, 36(1998), 108.



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