## Journal of the Indian Institute of Science Bangalore 560 012 India

(Section B: Physical and Chemical Sciences)

May 1984

**CONTENTS** 

Number 5

Volume 65

Fluid Mechanics		
S.P. Bhattacharyya and S. Nadoor	A comparison between the 'local potential method' and the 'exact numerical procedure' (Application to the stabi- lity analysis of a hot layer of fluid)	71
Short Communications		
Elasticity		
Amarendra Das and Asa Chakraborty	Radial deformation and stresses in anisotropic nonhomogeneous elastic media	79
P. Biswas and P. Kapoor	Non-linear free vibrations of orthotropic circular plates at elevated temperature $% \left\{ \mathbf{r}_{i}^{\mathbf{r}}\right\} =\mathbf{r}_{i}^{\mathbf{r}}$	87
Astrophysics		
S. Karanjai	On some transcendental equations of astrophysical interest	95
Analytical Chemistry		
M.Z. Hasan, Animesh Kumar and S.P. Pande	Occurrence of cadmium in water; Its determination by flameless atomic absorption spectrophotometry	105
D.N. Purohit and Jesus Blanco	Spectrophotometric studies of nickel complex of 3-hydroxy-3-phenyl-1-0-carboxy-phenyl triazene	111
Sushma Shivpuri, M.P. Tyagi and D.N. Purohit	Cycloalkyl aryl amino acids in spectrophotometric determination of copper	115
K. Hussain Reddy, K.M.M.S. Prakash, K. Girdidhara Reddy and D. Venkata Reddy	1,3-cyclohexanedione bisthiosemicarbazone monohydro- chloride as a chromogenic reagent for the rapid spectro- photometric determination of platinum: Physicochemical data of platinum complex	119
Electrochemistry		
R. Sreenivasulu, V.S. Raghavendra Rao and K. Hussain Reddy	Polarographic study of the composition and stability constants of cadmium (II) complexes with new Schiff bases	
Book Reviews		131