

PROCEEDINGS
 OF THE
NATIONAL INSTITUTE OF SCIENCES OF INDIA
JANUARY-FEBRUARY, 1954

No. 1] VOL. XX [Pp. 1-126

CONTENTS

	Page
A theory of strong electrolytes in solution based on a new statistics. Equilibrium phenomena: Activity coefficients <i>by</i> M. DUTTA, M.Sc., D.Phil. and M. SENGUPTA, M.Sc.	1
On the problem of transfer of radiation in a spherically symmetrical stellar atmosphere for the non-conservative case <i>by</i> K. K. SEN, M.Sc.	12
Study on the state of dispersoid in the colloidal coloured glass <i>by</i> B. K. BANERJEE, M.Sc., D.Phil.	19
On lattice coverings by spheres <i>by</i> R. P. BAMBHAH	25
The occurrence of <i>Glossopteris</i> fronds in the North-East Frontier Tracts, with a brief review of the Gondwanas of North-Eastern India <i>by</i> K. JACOB, D.Sc., F.G.S., F.N.I. and T. BANERJEE, M.Sc.	53
Some infinite integrals involving Bessel functions <i>by</i> C. B. RATHIE, M.Sc.	62
The emission band spectrum of Cl_2^+ <i>by</i> P. TIRUVENGANNA RAO, D.Sc.	70
A theory of resistance in potential flows (Parts I-IV), <i>by</i> N. L. GHOSH, M.Sc., D.Phil.	74
The structural and drainage patterns of the Western Ghats in the vicinity of the Palghat Gap <i>by</i> K. JACOB, D.Sc., F.G.S., F.N.I., and S. NARAYANASWAMI, M.A., B.Sc.	104
On polar reciprocal convex domains <i>by</i> R. P. BAMBHAH	119
Note on the vibration spectrum of a crystal <i>by</i> SIR R. E. PEIERLS, C.B.E., F.R.S.	121

NATIONAL INSTITUTE OF SCIENCES OF INDIA
 NEW DELHI