

THE  
MATHEMATICS  
STUDENT

27

EDITED BY  
M. K. SINGAL

VOLUME XL (1972)

PUBLISHED BY  
THE INDIAN MATHEMATICAL SOCIETY

## CONTENTS

M.K. SINHAL	: P.L. Bhatnagar: Man and Mathematician	1
SIR JAMES LIGHTHILL	: 2nd International Congress on Mathematical Education	13
J.N. KAPUR	: On transition from deterministic to stochastic models—I	17
DAVID LEE HILLIKER	: A study in the history of Analysis upto the time of Leibniz and Newton in regard to Newton's discovery of the binomial theorem	28
J. KAMPE DE FERIET	: An ergodic property of the Brownian motion	35
J.M. DAVIES AND K. WALTERS	: On normal-stress measurements using slits and capillary tubes	38
ANDRE MERCIER AND HANS-JURG TREDER	: Future of G.R.G. (General Relativity and Gravitation)	49
SUEO UENO	: Cauchy problems for a plane couette flow based on the BGK kinetic model	65
L.D. KUDRYAVTSEV	: Some properties of weight spaces and their applications	72
D.K. SINHA	: A critique on theoretical studies in thermopiezo-electricity	89
A.S. GUPTA	: Heat Transfer in Hydromagnetic couette flow with Hall Effects	103
V.G. TIKEKAR	: On the Solution of a Two-Point Boundary value Problem of a Linear Ordinary Differential Equation with a Parameter	120
R.C. SHARMA	: Effect of rotation and a general oblique magnetic field on Rayleigh-Taylor Instability	125
R.K. RATHY AND K. CHANDRA	: Hydromagnetic stability of density stratified spiral flows with a radial gravitational force	129
A.K. MATHUR, N.C. SACHETI AND B.S. BHATT	: Unsteady hydromagnetic flow between parallel plates	145
S.N. DUBE AND N. PARASAD	: Unsteady flow of Rivlin-Ericksen fluids in a circular pipe	152

JAGDISH SAINI AND S.C. AGRAWAL	: Thermal instability of compressible fluids	158
ASHA MATHUR AND MAMATA DEB	: A note on almost continuous mapping	173
NIRMALA PRAKASH R.K. SAXENA AND R.S. KUSHWAHA	: A note on theory of curvature structures	185
P. KESAVA MENON	: An integral transform associated with a kernel of Fox	201
O.P. MISRA	: Interpolation methods in infinite series	207
H.M. SRIVASTAVA	: An Introduction to distribution theory	218
PUSHPA JAIN	: On a General Function for the Jacobi Polynomial-II	225
R.S. MISHRA	: Subparacompact spaces	231
A.C. VASU	: Wilson's Theorem	250
PL. KANNAPPAN	: A generating function for $J_{k, l}(m)$	255
ASHA RANI SINGAL	: On some identities	260
MOHINDER CHAWLA AND RAM BEHARI	: Strongly $\pi$ -paracompact spaces	265
S.P. SINGH AND MARY VEITCH	: On a particular type of almost complex spaces	274
K.L. SINGH	: Fixed point theorems for mappings with a convexity condition	279
S.K. MAJUMDAR B.G. PACHPATTE	: Fixed point theorems for densifying maps—I	283
LALITA KHAZANCHI S.K. KUNDU	: Chomskyan revolution	289
T.R. PRABHAKAR AND SUMAN REKHA	: Perturbation nonlinear integro-differential equations	292
OM P. SINGH	: A note on commutators	297
PREM N. BAJAJ	: Measures in a Boolean algebra with values in a lattice-ordered group	301
SUNDER LAL	: On a general class of polynomials suggested by Laguerre polynomials	311
M.K. SINGAL AND SHASHI PRABHA ARYA	: On the structure of multiple parameter intrinsic derivatives	318
B. FISHER	: Connectedness vs. sets of singular points products of semi-dynamical systems	329
J.P. SINGAL AND	: A characterization of complete regular spaces	334
	: A survey of countably paracompact spaces	337
	: Some results on singular products of distributions	373
	: Some integrals involving Appell's functions	385

R.P. AGARWAL	: A note on certain partial sums of hypergeometric series	389
SARAMMA MATHAI	: Prolongation of almost contact structure to the tangent bundle of a manifold	392
HANSRAJ GUPTA	: Partition of $j$ -partite numbers into twelve or a smaller number of parts	401
MUMTAZ AHMAD KHAN	: An algebraic study of certain $q$ -fractional integrals and $q$ -derivatives	442
G.C. AHUJA, T.D. NARAG AND SWARAN TREHAN	: An approximation problem in metric linear spaces	447