

9.7.60

## THE MATHEMATICS STUDENT

Volume XLVI Number 1

March 1978

PUBLISHED BY
THE INDIAN MATHEMATICAL SOCIETY

Issued: December 1979

## CONTENTS

Baisnab A.P. and Chumki Panja. Asymptotic. Regularity and		
Fixed Point Theorems.		54
Banerji P.K. and Sethi P.L. Operators of a Generalized Function of <i>n</i> -variables.		152
Basmaji B.G. Modular Representations of Metacyclic Groups		105
Brezinski C. Survey of Convergence Acceleration Methods		
in Numerical Analysis.		28
Chandan S. Vora. Fixed Point Theorems for Certain Compact		
Weighted Maps of a Manifold.		81
Chandan S. Vora. Some Applications of the Fixed Point Tleorems for Compact Weighted Maps.		87
Chardra Sekharaiah D.S. On Waves of arbitrary form at the		
interface between an elastic half-space and a liquid.		314
Char ir V.R. Ruled Wiengarten Surfaces.		226
Chhat it S. and Mandal K.K. Dispersion of soluble in Hydro-		
Magnetic Laminar flow in a rectangular duct.		283
Chiney S.P. Extended Jacobi Polynomials and Group		
Representations.		330
Choudhary S.C. and Jat J.L. On Strict Weakly Regular Near		100
Rings.		175
Datta N. and Jena R. A note on free convection of water at		319
4°c from a horizontal plate.		
Duggal B.P. Self Reciprocal Functions: Some Remarks.	•••	263
Das R.N. On Certain Polynomials.		135
Erhard Fraune. On a sum connected with Hurwitz Zeta		
Function.		364
Fisher B. Singular Convolutions of Distributions.		267
Gupta H. Report on Solutions of the Diophantine Equation		
$\sum_{j=0}^{n} (x+j)^2 = \sum_{j=0}^{n-1} (y+j)^2$		342
$\sum_{j=0}^{\infty} {\binom{w+j}{j}} - \sum_{j=0}^{\infty} {\binom{y+j}{j}}$		342
Gupta H. On Sums of factors of m.		379
Hanumanthachari J. and Subrahmanya Sastri. On Some		
Arithmetical identities.		60

ENT

Chandigarh-160 014.

tics Student should be
of Mathematics, Panjab
be type-written, double
r final form. Formulae
ould be listed in alphated in the text by the
s. Authors are advised
blication, as the Editor
ordinarily receive only
with the proofs. Stylisters will be charged for

dent are entitled to 50 ntegral multiples of 50) at the time of proof-

Professar I. S. Luthar. of address, admission of t issues etc. should be artment of Mathematics,

Hanumanthachari J. Subrahmanya Sastri V.V. and Veeravalli Sinivasan. On e-Perfect Numbers.		71	Patadia J.R. On the convergence and summability of a Lacunary Fouries Series.	Section 1	i
Ibiejugaba M.A. Stability of difference schemes of linear ordinary differential equation (nth order) with defining			Pradhan K.M. On some derivatives of Generalized Hypergeometric Polynomials.		14
polynomial possessing repeated roots on the unit circle.  Jain R.K. On Multiplication Ideals.	•••	351 116	Pradhan K.M. Some generating functions for generalized Hypergeometric Polynomials.		39
Jain R.K. On Multiplication Rings.	1.	* 359	Prem Nath. On Shannon's inequality and its applications.		29
Jain S.K. Non-negative Matrices having Non-negative Generalised Inverses.		42	Rai P.N. and Singh S.N. On a class of generalized Hermite polynomials.		37
Jat J.L. and S.C. Choudhary. See Choudhary S.C.		175	Raina R.K. On certain double integral Transformations.		14
Jena S.C. and Nand Kishore. Absolute Matrix Summability			Raina R.K. On certain Inequalities.		16
of an Associated Conjugate Series.		195	Ramachandra K. Some current problems in Multiplicative	NO. VI	10
Kabe D.G. A Note on Fixed Points of Contracting Mappings on Statistical Metric Spaces.		278	Number Theory.  (Sri) Ramchandra Murthy. A Generalization of a theorem of	•••	
Khan M.S. On a Fixed point Theorem of Khazanchi.		248	Sierpinski.	Barrier S	336
Khanna I.K. Finite Difference Formula for the Classical			Roy R. On a paper of Ramanujan on Definite Integrals.	evious	130
Polynomials.		172	Roy R. A note on a formula of Wallis.		133
Khanna I.K. A Series Manipulation.	***	238	Roy R. A note on the proper base of a Topology.		193
Kulkarni S.R. and Thakare N.K. See Thakare N.K.		367	Sareen S. and Sinha T.N. The Diophantine equation		193
Lahiri B.K. Local Measurability.		230	with only Trivial Solutions.		325
Lakhani K.B. On order of approximation of an equation		200	Sastry K.P.R. A note on Hahn Decomposition of Finitely Additive Measures.		
by its Laguerre expansion.  Limaye B.V. Non-complex methods in the Theory of Banach	•••	308	Satyabhama V. The RC-functional equation on Oppositor		281
Algebras.		49	of Grouppoids.	•••	218
Mandal K.K. and Chhatait S. See Chhatait S.		283	Sethi P.L. and Banerji P.K. See Banerji.		152
Mann H B, and Webb W.A. A short proof of Fermat's			S.N. Singh and P.N. Rai. See P.N. Rai.		374
theorem for $n=3$ .		103	Singhi N.M. Characterizations of Finite Projective Planes	•••	
Mansoor Ahmad. A note on Quasi Monotone Sequences.		338	oringii Chandel R.C. A problem on Heat Conduction		14
Mohanty G.C. A Geometrical approach for the expansion of			Sinha T.N. A note on Equal sums of Like Powers.	•••	240
Trigonometrical function of multiple angles.		183	1.N. and Sareen S See Sareen	**	121
Mukherjee S.K. On some interesting behaviours of Entropy		272	Subrahmanya Sastry, See Hanumanthachari	***	325
Limits.		273	Tallianva Sactor V V Co. II	•••	60
Nand Kishore and Jena S.C. See Jena.		195	Srinivasan V.		71
Page W A note on Linear Transformations		191		440	71

Editor's New ( iv ) Sita Ramachandra Rao R. and Sita Ramaiah V. Remarks on 259 Ramanujan's Sum. 259 Sita Ramaiah V. See Sita Ramachandra Rao. 160 Siva Rama Sarma A. On  $\triangle$   $(x,n) = \varphi(x,n) - x \varphi(n)/n$ . Srinivasan V. See Hanumanthachari J. and Subrahmanya 71 Sastry V. V. Thakare N.K. and Kulkarni S.R. The radius of convexity for 367 a certain class of analytic functions. 22 Taqdir Husain. Frechet Algeoras with bases. Toyoizumi M. On the equation  $a^x - b^y = (2p)^z$ . Tiwari A.K. On the Laplace Transform of Generalized 208 251 Functions. Thrimurthy P. Some identities in Arithmetical Functions. Webb W.A. and Mann H.B. See Mann H.B. 100, 101, 397 Book Reviews. ERRATA, to M.K. Sathya Narayana's paper on 404 Steiner-Lehmus Theorem.