

Indian Journal of Mathematics

Volume 18, No. 1, 1976

CONTENTS

Hansraj Gupta

A DIRECT PROOF OF THE CHURCHHOUSE CONJECTURE CONCERNING
BINARY PARTITIONS 1-5

Shri Nivas Bhatt

ON THE ABSOLUTE NÖRLUND SUMMABILITY OF LAPLACE SERIES 7-18

Harold Willis Milnes and S. K. Hildebrand

ENDPOINT CONDITIONS FOR THE PROBLEM OF EXTREMIZING A
NON-PARAMETRIC INTEGRAL IN THE PLANE 19-22

J. Chidambaraswamy

GENERALIZED DEDEKIND ψ -FUNCTIONS WITH RESPECT TO A POLYNOMIAL I
23-34

Abstract: For a given polynomial $f = f(x)$ of positive degree with integer coefficients and for given positive integers k and t , the functions $\Psi_{f,t}^{(k)}(n)$ and $\psi_{f,t}^{(k)}(n)$ are defined and studied. When $f(x) = x, t = 1$, these functions reduce to $\Psi_k(n)$ and $\psi_k(n)$ which were defined and studied, as generalizations of Dedekind's ψ -function $\psi(n) = \sum_{d/n} d \phi(g)g^{-1}, g = (d, n/d)$, by Suryanarayana recently.

Lynn C. Kurtz

ON UNIFORM CONVERGENCE AND POSITIVE OPERATORS 35-40

R. Rao Chivukula and William D. May

A GENERALIZATION OF SCHAEFER'S ORDER DUALITY THEOREM 41-47

Mourad Ismail and M. V. Subbarao

UNITARY ANALOGUE OF CARMICHAEL'S PROBLEM 49-55

2

Charles S. Rees and Paul K. Rees

CONCERNING TRANSFORMS OF FUCHSIAN GROUPS

57-60

Peetam Singh

A NOTE ON THE SOLUTION OF TWO-DIMENSIONAL VOLTERRA INTEGRAL EQUATION
BY SPLINES

61-64
