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Alexander Abian and Paula Kemp

THE GENERALIZED CONTINUUM HYPOTHESIS IMPLIES THE
AXIOM OF CHOICE

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Abstract: In this self-contained paper we prove in a simple way that the Generalized Continuum Hypothesis implies the Axiom of Choice in the context of ZF set theory.

Vahid Ali and Abdol-Hossein Rezvani

SPECIAL CONFORMAL CONNECTION OF A FINSLER SPACE

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Abstract: The main purpose of the present paper is to investigate the conformal connection with respect to indicatrices as Riemannian space (Yasuda, 1984). In Section 2, we study special conformal connections. In Section 3 the properties of curvature and torsion tensors of Conformal Connection have been studied. In Section 4 the connection $ICF\hat{\Gamma}$ induced from $CF\hat{\Gamma}$ according to the theory of subspace of M_n is obtained.

Akrur Behera

ADAMS COMPLETION FOR THE KAN EXTENSION OF A COHOMOLOGY
THEORY

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Abstract: Using a Serre class of abelian groups, we show that a cohomology theory over the category of based topological spaces and continuous maps arising through Kan extension process from an additive cohomology theory over a smaller subcategory always admits global Adams completion.

Hazem Shaba Behnam and G. S. Srivastava

GROWTH OF ANALYTIC DIRICHLET FUNCTIONS OF TWO COMPLEX
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Abstract: In this paper, we consider analytic functions represented by Dirichlet series of two complex variables. We have defined their order and type and have obtained their coefficient characterizations.

G. Das and B. K. Ray

DEGREE OF APPROXIMATION OF FUNCTIONS IN H_p^w CLASS BY
 $(D_{\gamma,\delta})$ -MEAN OF FOURIER SERIES

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Abstract: The object of the paper is to study the degree of approximation of functions belonging to H_p^w class ($p \geq 1$) by $(D_{\gamma,\delta})$ -transform of their Fourier series, generalizing some known works in the literature.

Sever S. Dragomir and Song WangA NEW INEQUALITY OF OSTROWSKI'S TYPE IN L_p -NORM

299-304

Abstract: In this paper we prove an inequality of Ostrowski's type in L_p -norm with $p > 1$ and apply it to the estimation of upper error bounds for numerical quadrature rules.

Pentti HaukkanenBASIC PROPERTIES OF THE BI-UNITARY CONVOLUTION AND
THE SEMI-UNITARY CONVOLUTION

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Abstract: The bi-unitary convolution and the semi-unitary convolution, respectively, are defined as

$$(f^{\oplus\oplus}g)(n) = \sum_{\substack{d|n \\ (d, n/d)^{\oplus\oplus}=1}} f(d)g(n/d)$$

$$(f^{\oplus}sg)(n) = \sum_{\substack{d|n \\ (d, n/d)^{\oplus}=1}} f(d)g(n/d),$$

where $(m, n)^{\oplus\oplus}$ is the greatest common unitary divisor of m and n and where $(m, n)^{\oplus}$ is the greatest unitary of n which is a divisor of m . We survey the basic properties of these convolutions and show, among others, that neither of these convolutions is regular in the sense of Narkiewicz. No such unified treatment has hitherto been made in the literature.

Saeid Jafari and Takashi NoiriSTRONGLY SOBER θ -IRRESOLUTE AND SOBER θ -IRRESOLUTE FUNCTIONS

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Abstract: In this paper, we introduce new strong and weak class of θ -irresolute functions called strongly sober θ -irresolute and sober θ -irresolute functions and investigate some of their fundamental properties.

R. B. PatelDUALITY IN MULTI-OBJECTIVE PROGRAMMING WITH GENERALIZED
CONVEX FUNCTIONS

331-345

Abstract: Egudo derived some duality theorems for multiobjective nonlinear programs using the concept of efficiency. The concept of efficiency (Pareto optimum) is used to state some duality result under generalized (F, p) -convexity assumptions.

Bhagwat PrasadON SEMI-PSEUDO SYMMETRIC AND SEMI-PSEUDO RICCI SYMMETRIC
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Geetha S. Rao and R. Saravanan

BEST SIMULTANEOUS COAPPROXIMATION

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Abstract: This paper deals with some fundamental properties of the set of best simultaneous coapproximation. A characterization of best simultaneous coapproximation is established.
