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CONTENTS

G. Aslim and G. Sh. Guseinov

WEAK SEMIRINGS, ω -SEMIRINGS, AND MEASURES 1-20

Abstract: In this paper the concepts of weak semiring and ω -semiring are introduced, and the connection of these concepts with measure theory is investigated.

G. Criscuolo and R. Giova

On the evaluation of the finite Hilbert transform by	
A PROCEDURE OF INTERPOLATORY TYPE	21-33

Abstract: Modified formulas of interpolatory type based on a special set of points for the numerical approximation of the finite Hilbert transform with respect to a weight are considered. Convergence theorems are given for a large class of weight functions

U. C. De and Bimal Krishna Mazumder

NEARLY KÄHLER SPACES WITH CONSERVATIVE CONFORMAL CURVATURE TENSOR 35-39

Abstract: A conformally conservative nearly Kähler space is of constant scalar curvature. Also in such a space the Ricci tensor is of Codazzi type.

1

V. Gaftoi, J. López-Bonilla And G. Ovando

An application of Lovelock's Theorem

Abstract: We employ a theorem of Lovelock [11] to obtain the Lanczos identity [9] $R^*_{ijpq} = \frac{1}{4} \delta^u_i$ which is valid in every Riemannian 4-space.

41 - 44

Dharma P. Gupta

THREE TERM CONTIGUOUS RELATIONS FOR THE BASIC	
HYPERGEOMETRIC FUNCTIONS	45 - 77

Santosh Kumar, Harjeet Arora, Cos Chiera and Gowri Raviganesh

PATHS FOR SELF-HEALING PROTEAN NETWORKS 79-9	94
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Abstract: This paper presents an algorithm to find all the paths without any circuit between any two specified nodes as origin node and the destination node which should not pass through a given set of forbidden edges. Further the path should not be made up of more than a given number of edges. K between those two specified nodes. It is assumed that the graph is simple and connected, free of loops and undirected.

T. Pati

On the convergence and summability $(C,1)$ of the	
Lebesgue-Fourier series	95-103
D. N. Sarkhel	
The generalized sifting integral	105-128

Abstract: Generalizing and simplifying the unified Riemann scale of absolute and non-absolute sifting integrals of Sarkhel [12],

 $\mathbf{2}$

in this paper is defined the phase integral over arbitrary sets in n-dimension. Main results include a new descriptive definition, and convergence theorem in the form of a necessary and sufficient condition which quickly implies the monotone convergence theorem. Fatou's lemma, and the dominated convergence theorem.

S. D. Sharma and R. K. Singh

Composition operators on Hardy spaces of the upper half-plane 129-145

> **Abstract:** If T is a self analytic map of a non-empty subset X of the complex plane C, H(X) is a Banach space of analytic functions on X and the linear transformation C_T , defined by $C_T f = f \sigma T$, maps H(X) continuously into H(X), then C_T is called the composition operator induced by T. In this survey article, an attempt is made to collect the works done on composition operators on Hardy spaces of the upper-half-plane.

V. Yegnanarayanan

On some extremal graph coloring problems of Nordhaus Gaddum class 147-158

> **Abstract:** We report here a brief survey of the results on some extremal graph coloring problems of Nordhaus-Gaddum type inequalities involving chromatic, achromatic and pseudoachromatic numbers. Some open problems are also raised.

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