

## The New Integral Transform "ELzaki Transform"

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### Abstract

In this paper a new integral transform namely Elzaki transform was applied to solve linear ordinary differential equations with constant coefficients.

**Keywords:** Elzaki transform- Differential Equations.

### Introduction

ELzaki Transform is derived from the classical Fourier integral. Based on the mathematical simplicity of the Elzaki transform and its fundamental properties.

Elzaki transform was introduced by Tarig ELzaki to facilitate the process of solving ordinary and partial differential equations in the time domain.

Typically, Fourier, Laplace and Sumudu transforms are the convenient mathematical tools for solving differential equations.

Also ELzaki transform and some of its fundamental properties are used to solve differential equations.

A new transform called the ELzaki transform defined for function of exponential order we consider functions in the set  $A$  defined by:

$$A = \left\{ f(t) : \exists M, k_1, k_2 > 0, |f(t)| < M e^{k_1 t}, \text{ if } t \in (-1)^j X [0, \infty) \right\} \quad (1)$$

For a given function in the set  $A$ , the constant  $M$  must be finite number,  $k_1, k_2$  may be finite or infinite.

The ELzaki transform denoted by the operator  $E(\cdot)$  defined by the integral equations

$$E[f(t)] = \mathcal{T}(v) = v \int_0^{\infty} f(t) e^{-vt} dt, \quad t \geq 0, \quad k_1 \leq v \leq k_2 \quad (2)$$

# The New Integral Transform Elzaki Transform

**Alexander D. Poularikas**



## **The New Integral Transform Elzaki Transform:**

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book I have presented analytical study of some integral transforms like the Sumudu transform Elzaki transform Mellin type integral transform and newly defined Hybrid Sumudu Z transform These transforms extended on the different spaces of generalized functions like space of pseudoquotients space of Boehemians and developed their operational calculus on respective spaces Also analytical investigations of properties of the hybrid Sumudu Z transforms have been presented Since this book is devoted to the operational calculus of integral transforms so some applications are also presented which are elaborate the utility of our developed operational calculus I strongly recommend that this book is very useful to students and research scholars of mathematics

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[Integral Transforms for Engineers and Applied Mathematicians](#) Larry C. Andrews,Bhimsen K. Shivamoggi,1988-01-01

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particular in the theory of differential and integral equations and the theory of Dirichlet series It is found in extensive applications in mathematical physics number theory mathematical statistics theory of asymptotic expansions and especially in the theory of special functions and integral transformations It is essentially used in algorithms of integration in computer algebra systems Since the majority of integrals encountered in applications can be reduced to the form of the corresponding Mellin transforms with specific parameters this handbook can also be used for definite and indefinite integrals By changes in variables the Mellin transform can be turned into the Fourier and Laplace transforms The appendices contain formulas of connection with other integral transformations and an algorithm for determining regions of convergence of integrals The Handbook of Mellin Transforms will be of interest and useful to all researchers and engineers who use mathematical methods It will become the main source of formulas of Mellin transforms as well as indefinite and definite integrals     Integral Transforms in Mathematical Physics Clement John Tranter, 1956

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