

THE TRIPLE LAPLACE TRANSFORMS AND THEIR PROPERTIES

A. K.Thakur, Avinash Kumar & Hetram Suryavanshi

Dr. C. V. Raman University, India

ABSTRACT

This paper deals with the triple Laplace transforms and their properties with examples and applications to functional, integral and partial differential equations. Several simple theorems dealing with general properties of the triple Laplace transform are proved. The convolution, its properties and convolution theorem with a proof are discussed in some detail. The main focus of this paper is to develop the method of the triple Laplace transform to solve initial and boundary value problems in applied mathematics, and mathematical physics.

KEYWORDS: *Triple Laplace Transform, Double Laplace Transform, Single Laplace Transform, Convolution*

Article History

Received: 17 May 2018 / Revised: 22 May 2018 / Accepted: 26 May 2018
