

# **Z TRANSFORM**

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## **ABSTRACT**

An introduction to Z Transform is the topic of this paper. It deals with a review of what Z Transform means and what does the specific region of convergence represent. A pictorial representation of the region of convergence has been sketched.

Most of the important Z Transform properties have been mentioned with detailed proofs. This paper also insights the Inverse Z Transform and provides multiple methods to find the same. The use of Z Transform is to convert a simple or a complicated sequence in to a corresponding frequency domain equivalent. A brief description of the same has also been given.

**KEYWORDS:** Z Transform, Inverse Z Transform, Convolution, Region of Convergence