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Z - Transform

INTRODUCTION

Z-transform plays an important role in discrete analysis. Its role in discrete analysis is the same as that of Laplace and Fourier transforms in continuous system. Communication is one of the fields where development is based on discrete analysis. Difference equations are also based on discrete analysis and their solutions and analysis are carried out by Z- transform.

SEQUENCE

A sequence $\{f(k)\}$ is an ordered list of real or complex numbers.

REPRESENTATION OF A SEQUENCE

Method.

The elementary way is to list all the members of the sequence such as

$$\{f(k)\} = \{15, 10, 7, 4, 1, -1, 0, 3, 6\}$$

↑

The symbol ↑ is used to denote the term in zero position i.e., $k = 0$, k is an index of position of a term in the sequence.

$$\{g(k)\} = \{15, 10, 7, 4, 1, -1, 0, 3, 6\}$$

↑

Two sequences $\{f(k)\}$ and $\{g(k)\}$ have the same terms but these sequences are not identically the same as the zeroth term of those sequences are different.

In case the symbol ↑ is not given then left hand end term is considered as the term corresponding to $k = 0$.

In sequence $\{8, 6, 3, -1, 0, 1, 4, 5\}$

the zeroth term is 8, the left hand end term.

Method.

The second way of specifying the sequence is to define the general term of the sequence $\{f(k)\}$ as function of k .

For example,

$$f(k) = \frac{1}{3^k}$$

This sequence represents $\left\{ \dots, \frac{1}{3^{-3}}, \frac{1}{3^{-2}}, \frac{1}{3^{-1}}, 1, \frac{1}{3}, \frac{1}{3^2}, \frac{1}{3^3}, \dots \right\}$

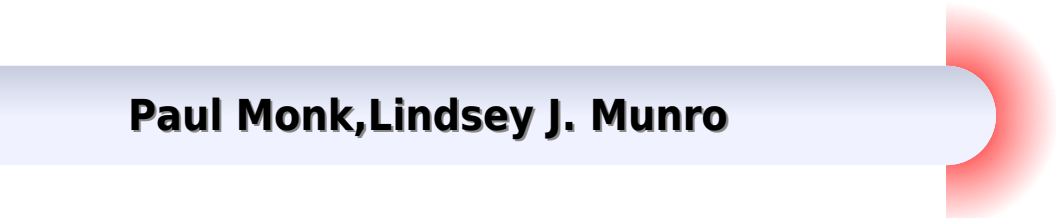
↑
 $k = 0$



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Maths A To Z

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