Z - Transform

UNTRODUCTION

Interest plays an important role in discrete analysis. Its role in discrete analysis is the same Liplace and Fourier transforms in continuous system. Communication is one of the field development is based on discrete analysis. Difference equations are also based on discrete and their solutions and analysis are carried out by Z- transform. SEQUENCE

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

REPRESENTATION OF A SEQUENCE

d 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 \uparrow 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 besame as the zeroth term of those sequences are different.

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

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

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

and Method.

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

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

For example,
$$f(k) = \frac{1}{3^k}$$
This sequence represents $\left\{ \dots \frac{1}{3^{-3}}, \frac{1}{3^{-2}}, \frac{1}{3^{-1}}, 1, \frac{1}{3}, \frac{1}{3^2}, \frac{1}{3^3} \dots \right\}$

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 $k = 0$

$$k = 0$$

Maths A To Z

Debashis Dutta

Maths A To Z:

Algebra from A to Z A. W. Goodman, 2001 Explains algebra from basic concepts to college level skills The A to Z of Mathematics Thomas H. Sidebotham, 2003-04-14 Forget the jargon Forget the anxiety Just remember themath In this age of cheap calculators and powerful spreadsheets whoneeds to know math The answer is everyone Math is all around us We confront it shopping in the supermarket paying our bills checking the sports stats and working at our jobs It is also one of the most fascinating and useful subjects Mastering math canmake a difference in your career your studies and your dailylife If you are among the millions of people who would love tounderstand math but are turned away by fear of its complexity hereis your salvation The A to Z of Mathematics makes math simple without making it simplistic Both easy to use and easy to read the book covers all the topics in basic mathematics You ll learnthe definitions of such terms as proportion hexomino and grasp the concepts behind algebra statistics and other processes The book s alphabetical arrangement helps you quickly home in onany topic and its text is rich with stimulating examples diagrams and other illustrations that make the discussion crystalclear to every reader Everyone will find something of interest inthis wide ranging guide to mathematics The perfect antidote to math anxiety this is an invaluable resource for parents and students home schoolers teachers and anyone else who wants to improve his or her math skills and discover the amazing relevance of mathematics to the world aroundus

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