**Paper title**

Newton Forward Interpolation: Representation of Numerical data by a polynomial curve.

**Availability**

<http://www.researchgate.net/publication/322797744>Newton%27sForward Interpolation Presentation of Numerical Data by a Polynomial Curve.

**What, Why and How**

**What:**

a) Interpolation

b) Newtons Forward Interpolation Formula

c) Representation of Numerical data by a polynomial curve

d) An example of application of formula

e) Valid condition

**Why:**

In order to introduce with a new approach (an extended version of N.F.I) which has been derived from

Newton’s forward interpolation formula by which we can

* Reduce the numerical computation associated to the repeated applications
* Compute a large number of interpolated values
* Represent the numerical data on a pair of variables by a polynomial curve
* Familiar with real life application of the formula

**How:**

After researching limitations and get rid of these (repeated numerical computations from the given data and computing a large number of interpolated values) think of an approach which consists of the representation of the given numerical data by a suitable polynomial and then compute the value of the dependent variable from the polynomial corresponding to any given value of the independent variable.

**Limitations**

1. A voltage-current characteristic of a zener diode.
2. The interpolating polynomial has degree four, five, six for five or five data points.
3. Not suitable everywhere because it produces a massive error.

**Oncoming Activities**

Any kinds of estimations with a large number of interpolated values we can find out our predicted value (approx.) by this new approach.