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In this introductory talk,  
we first revisit with proof  
for illustration purposes  
some basic properties of a  
specific system of  
orthogonal polynomials,

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namely the Chebyshev polynomials of the first kind. Then we define the notion of orthogonal polynomials and provide with proof some basic properties such as: The uniqueness of a family of orthogonal

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polynomials with respect to a weight (up to a multiplicative factor), the matrix representation, the three-term recurrence relation, the ...

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Sequence (OPS) is a sequence



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of polynomials  $P_n(x)$  such that  $P_n$  has degree  $n$  and any two polynomials are orthogonal. Here the inner product is defined in terms of a given linear functional  $L$ , so that  $L(P_n P_m) = 0$  if and only if  $n \neq m$ .

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Orthogonal polynomials in function spaces We tend to think of scientific data as having some sort of

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continuity. This allows us to approximate these data by special functions, such as polynomials or finite trigonometric series. The quantitative measure of the quality of these approximations is necessary.

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set of polynomials where any two are orthogonal to each other In mathematics, an orthogonal polynomial

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sequence is a family of polynomials such that any two different polynomials in the sequence are orthogonal to each other under some inner product. The most widely used orthogonal polynomials are the

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Classical orthogonal polynomials, consisting of the Hermite polynomials, the Laguerre polynomials and the Jacobi polynomials together with their special cases the Gegenbauer polynomials, the Chebyshev

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group representations and orthogonal polynomials is given. Orthogonality relations for the spherical functions for the rotation groups in Euclidean space (ultraspherical polynomials), and the matrix

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elements of  $SU(2)$  (Jacobi polynomials) are discussed. A general theory for finite groups acting on graphs, giving a finite set of discrete orthogonal polynomials is given.

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*An Introduction to Group Representations and Orthogonal ...*

The above is an equality if  $f \in \text{span}(B)$ , that is,  $f$  is a linear combination of some functions in  $B$ . Otherwise, it is an orthogonal

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projection of  $f$  onto  $\text{span}(B)$ . 2 Orthogonal Polynomials A sequence of orthogonal polynomials consists of  $p_0(x), p_1(x), p_2(x), \dots$  ( $n$  finite or infinite) such that

- $p$

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includes necessary background material of the type not usually found in the standard mathematics curriculum.

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Legendre polynomials are  
named after French

mathematician Adrien-Marie  
Legendre (1752 - 1833) who  
discovered them in 1782.

They are a complete set of  
orthogonal polynomials, with

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rich mathematical properties, and many applications.

*1. Legendre polynomials - An easy introduction*

Polynomials are an orthogonal basis for all



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polynomials of degree  $k$  or less. These polynomials are very special in many ways.

## *Orthogonal-Polynomials*

Orthogonal polynomials We start with Definition 1. A sequence of polynomials

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$p_n(x)$   $n=0$  with  
degree  $[p_n(x)] = n$  for each  $n$   
is called orthogonal with  
respect to the weight  
function  $w(x)$  on the  
interval  $(a; b)$  with  $a < b$  if

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