Diaz Hernandez Marcos Bryan Ma-Ju
Tarca:23

- Ejercicio 6, 2001-2,2° tinal, Tipo B

Sea W= { Ca,b,c,d) | c=-d; a,b,dth} un subcupació de R4. Deva el producto interno usual de R4, expresor v= (v3, 4,17,0) como la suna de un vector à de W y otro b del complemento ortegoral de W.

 $||(C_{1},0,0,0)| = \sqrt{C_{1},0,0,0}||(C_{1},0,0,0)|^{2} = 7 \quad ||(C_{1},0,0,0,1)|| = \sqrt{1+7} = \sqrt{2}$   $8n = \frac{3}{5}(C_{1},0,0,0) + (C_{1},0,0,0) + \frac{1}{5}(C_{1},0,0,0,1,1)$ 

Vi= ((13, -4/5, 7,0)) (1,0,0,0) (1,0,0,0) + (C13,-4/5,7,0) (0,1,0,0)) (0,7,0,0) + (C13,-4/5,7,0) (+(0,0,-7,1)) (0,0,-7,7) (-1,0,0)

= (B,0,0,0) + (0,-4/5,0,0) + \(\frac{1}{2}\)(0,0,7,-7) = (B,-4/5,1/2,-1/2)

 $(\sqrt{3}, -\frac{4}{5}, 7, 0) = (\sqrt{3}, -\frac{4}{5}, \frac{1}{2}, -\frac{1}{2}) + \sqrt{2}$   $\sqrt{2} = (0, 0, +\frac{1}{4}, \frac{1}{4})$  $\sqrt{2} = (\sqrt{3} - \sqrt{3}, -\frac{4}{5} + \frac{4}{5}, 7 - \frac{1}{2}, +\frac{1}{2})$   $(q_1 b_1 c_1 d_1 (1, 0, 0, 0) = q = 0)$ 

 $\nabla = \sqrt{1 + \sqrt{2}}$ (a,b,c,d)(co,1,0,0) = b = 0  $\nabla = (\sqrt{3}, -4/5, 1/2, -1/2) + (0,0, 1/2, 1/2)$ (a,b,c,d)(co,0,-7,1) = -ctd=0  $c=d \in \mathbb{R}$ 

(V3,-4/6,7,0) = (V3,-4/5,7,0),

Ma – Ju Tarea: 23

- Gorcicio 16, 2008-7, 1º Parcial, Tipo 1

Scan P2 el espacio de las polinarios de grado monor o igual a dos concentrales reales, W= gax lackof un subespacio de P2 y el producto intermo en P2 definidopare

$$(p|q) = \sum_{k=-7}^{1} p(k)q(k) Mp, q \in \mathbb{R}_{2}$$
  $2x^{2}$ 

El polnomio h(x) EW mos pioximo a m(x) = x2+7 es.  
B= 
$$\{x^2\}$$
  $||x^2|| = \sqrt{(x^2)|(x^2)|^2} = \sqrt{1+1} = \sqrt{2}$   
Bn =  $\{\frac{1}{2}x^2\}$   $\bar{\omega} = ((x^2+7)|\frac{1}{\sqrt{2}}x^2)(\frac{1}{\sqrt{2}}x^2)$   $\bar{\omega} = \frac{1}{2}(2+2)(x^2 = \frac{4x^2}{2})$   $\bar{\omega} = 2x^2$ 

- Ejercicio 53, Pagina 370, Barrera.

Obtinga, impleando el método de mnimos cuadrados, una solucian aproximada al

Sintona de ecuacianes.
$$\begin{cases}
-a+b+c=6 & -7 & 7 & 7 \\
a-b+c=0 & 1 & 7 & 1 \\
b-c=7 & 0 & 1 & 1 \\
1 & 0 & 1 & 1
\end{cases}$$

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