ORTO GONALNE TRANSFORMACIE  
Ortogonaline funkcie  

$$k(t) = \sum_{k=0}^{M-1} y_k \cdot u_k(t) \quad k = 0, 4, 2, ..., N-1$$
  
 $koo y_k = 0 \text{ abou so signal un challen
 $v \in (0) \ ; m i i c \ by t = a j \ d$   
Def: Spojita' OT  
Systém  $M_k(t) \ j c \ ortogonaling ak$   
 $M_k(t) \neq f(M_j(t)) \ j \neq i$   
Matematicky:  $\int_{0}^{t_1} M_k(t) \cdot u_j(t) \ dt = 0 \ i \neq j$   
 $\int_{0}^{t_2} M_i^3(t) \ dt = U_i - dava utualount
 $t_1$   
 $Valua:  $y_k = \frac{1}{M_k} \int_{0}^{t_k} \chi(t) \cdot \overline{M_k(t)} \ dt$   
Def: Diskrétum OT  
 $\sum_{j r \neq i} M_i(m) = U_i$   
 $M_i = 1 \rightarrow 0$  ortonormalina Anukcia  
 $\sum_{m=0}^{m-1} M_i(m) = U_i$   
 $M_i = 1 \rightarrow 0$  ortonormalina Anukcia  
 $\sum_{m=0}^{t_1} M_i(m) = M_i$   
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 $\sum_{m=0}^{t_1} M_i(m) = M_i$   
 $\sum_{m=0}^{t_1} M_i(m) = M_i = M_i$   
 $M_i(m) = M_i$$$$ 

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4=0

1

(P) Vaurhuite úpluú muožiun dirkrét. OF de'žky 
$$N=3$$
  
pričom katda' funkcia ma' pra're:  
a) 3 nenulové prvky  
b) 2 -47-  
c) 7 -47-  
c) 7 -47-  
a) a 1 1  $\Rightarrow$  katdy' riadok muni byt ortogonalny s katdy'm  
a b 1  $\div$  ité ideme riciit rovnicu o 3 neenamych  
a b 1  $\div$  ité ideme riciit rovnicu o 3 neenamych  
a t t t c = 0  
 $1+b+c=0$   
 $1+b-c=0$   
 $1-c=-\frac{1}{2}$   
 $1-\frac{2}{1}$   
 $1-\frac{2}{1}$   

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