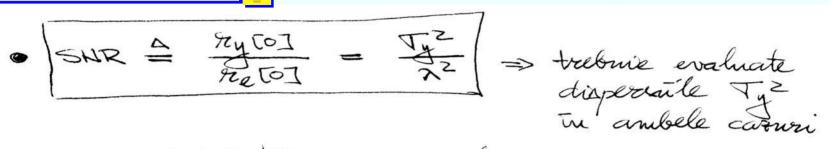
5 Exerciții rezolvate



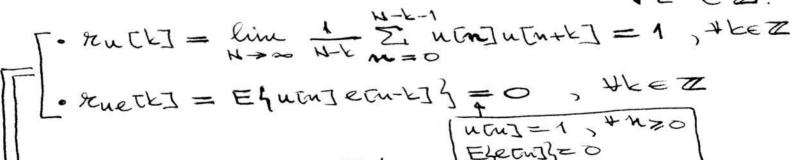




Modai vitri: - se walneara kuytk] penten curul uz treapta unitarà.

[ARX]:
$$92 \text{ myck]} = \left[\frac{3(g^{-1})}{A(g^{-1})} \text{ mcn-k]} + \frac{1}{A(g^{-1})} \text{ ecn-k]} \right] = \frac{1}{2} \left[\frac{3(g^{-1})}{A(g^{-1})} \text{ mcn-k]} + \frac{1}{2} \left[\frac{3(g^{-1})}{A(g^{-1})} \text{ ecn-k]} \right] = \frac{1}{2} \left[\frac{3(g^{-1})}{A(g^{-1})} \text{ ecn-k]} + \frac{1}{2} \left[\frac{3(g^{-1})}{A(g^{-1})} \text{ ecn-k]} \right] = \frac{1}{2} \left[\frac{3(g^{-1})}{A(g^{-1})} \text{ ecn-k]} + \frac{1}{2} \left[\frac{3(g^{-1})}{A(g^{-1})} \text{ ecn-k]} \right] = \frac{1}{2} \left[\frac{3(g^{-1})}{A(g^{-1})} \text{ ecn-k]} \right] = \frac{1}{2} \left[\frac{3(g^{-1})}{A(g^{-1})} \text{ ecn-k]} \right]$$

=
$$b \sum_{m \neq 1} (-a)^{m-1} 2u [m+k] + \sum_{m \neq 0} (-a)^{m} 2u e [m+k]$$



> truy[k] = b \(\sum_{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tiny{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tin}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texi}\text{\text{\text{\text{\texi}\text{\text{\texi}\text{\texi{\text{\texi}\text{\text{\texi}\titt{\text{\texi}\text{\text{\text{\text{\texi{\text{\texi{\t





5 Exerciții rezolvate

Soluție (Exercițiul 2.3) 🞏

= b , the Z (la fel).

« Se evaluearà ry [0] = Ti plevond de la ematrile recurrente generale particularitate in carul u = treapter mitaria.

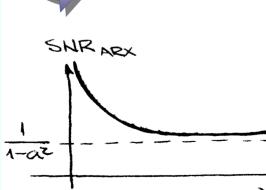
 $\text{Rytk]} + \text{arytk-1]} = \frac{b^2}{1+a} + x^2 \delta_0 \text{tk]}, \text{tk} > 0$



$$[ryt0] + aryt1] = \frac{b^2}{1+a} + x^2$$

$$[ryt1] + aryt0] = \frac{b^2}{1+a}$$

(1-a2) sy[0] = 62 1-a + x2 =>



SNR ARX =
$$\frac{1}{1-a^2} + \frac{b^2}{2^2(1+a)^2} > 1$$

5 <u>Exerciții rezolvate</u>

Soluție (Exercițiul 2.3)

SHROE



$$\begin{cases} y_{y}[0] + ay_{y}[1] = \frac{b^{2}}{1+a} + x^{2} \\ y_{y}[1] + ay_{y}[0] = \frac{b^{2}}{1+a} + ax^{2} | x(-a) \end{cases}$$

$$(1-a^2)^{1/2}\sqrt{10} = b^2 \frac{1-a}{1+a} + (1-a^2)^{-2} \Rightarrow$$

$$SNR_{OE} = 1 + \frac{b^2}{x^2(1+a)^2} > 1$$

5 Exerciții rezolvate



Exercițiul 2.4



Deduceți relațiile generale ale densităților spectrale de putere ale ieșirilor modelelor ARX[1,1] și OE[1,1]. Deduceți răspunsuile ideale în frecvență ale sistemelor reprezentate de cele 2 modele.

