martes, 8 de febrero de 2022 01:44 p. m.

CONSIDERE UN PROCESO MAKI):

(1-QB) dt = Mf ; dt ~ Mu (0,03)

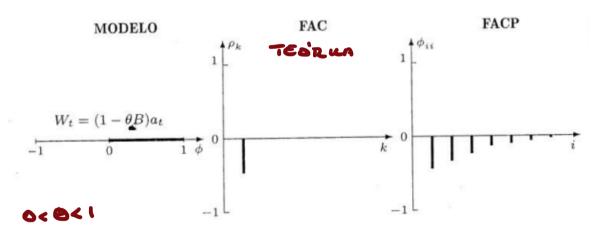
RECUERDE OUE ESTE PROCESO ES ESTACIONARIO PERO

NO SIEMPRE ES INVERTIBLE.

CONDICION DE INVERTISICIDAD : 10141

A PARTIA DE EUTA COUDICION IDENTIFICAMOS DOS REGIONES ADMINIBLES

REGIOù ADMISIBLE #1 : 0<0<1

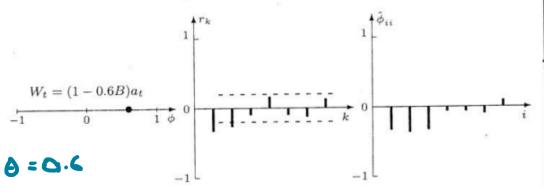


FAC TEGRICA

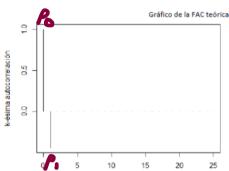
Comportamiento de la FAC

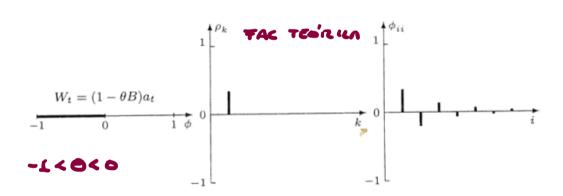
- $\rho_k = \begin{cases} \frac{-\theta}{1+\theta^2} & \text{si } k = 1\\ 0 & \text{si } k \ge 2 \end{cases}$
- Sólo la primera autocorrelación será distinta de cero.
- $|\rho_1| \le 0.5$

EIZHOW:







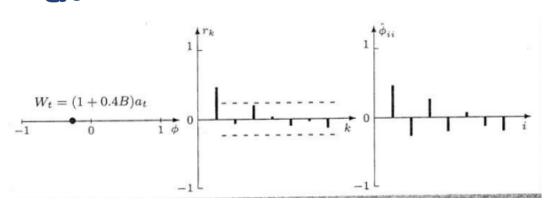


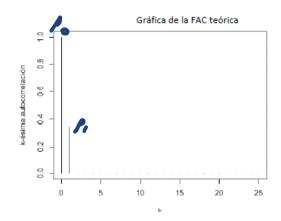
Comportamiento de la FAC

- Sólo la primera autocorrelación será distinta de cero.

■  $|\rho_1| \le 0.5$ 

### ELEMPIO



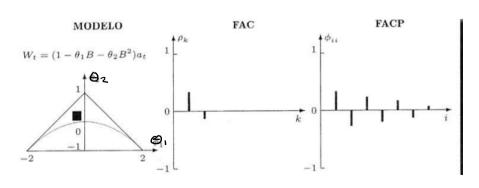


## CONSIDERE UN PROLESO MALZ)

## CONDICIONE PARA PROBAL INVESTIBILIDAD

## DE AQUI SURBEN LAS SHULFUTES REGIONES ADMISISCES

# REGION ADMISIBLE #1: DISCRIMINANTE DO Y DICO



A1 +49,50 7 8140

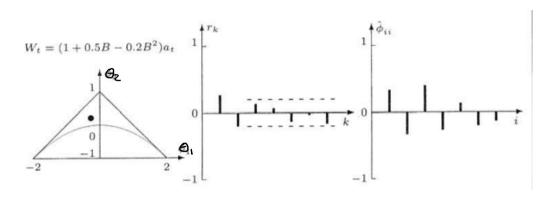
TAL TEORILA

CO HPUNT AND EASTO

$$\rho_k = \begin{cases} \frac{-\theta_1(1-\theta_2)}{1+\theta_1^2+\theta_2^2} & \text{si } k = 1\\ \frac{-\theta_2}{1+\theta_1^2+\theta_2^2} & \text{si } k = 2\\ 0 & \text{si } k \ge 3 \end{cases}$$

Sole by A be som LAS  $\rho_k = \begin{cases} \frac{-\theta_1(1-\theta_2)}{1+\theta_1^2+\theta_2^2} & \text{si } k=1\\ \frac{-\theta_2}{1+\theta_1^2+\theta_2^2} & \text{si } k=2\\ 0 & \text{si } k \geq 3 \end{cases}$   $\rho_k = \begin{cases} \frac{-\theta_1(1-\theta_2)}{1+\theta_1^2+\theta_2^2} & \text{si } k=2\\ 0 & \text{si } k \geq 3 \end{cases}$   $\rho_k = \begin{cases} \frac{-\theta_1(1-\theta_2)}{1+\theta_1^2+\theta_2^2} & \text{si } k=1\\ 0 & \text{si } k \geq 3 \end{cases}$   $\rho_k = \begin{cases} \frac{-\theta_1(1-\theta_2)}{1+\theta_1^2+\theta_2^2} & \text{si } k=1\\ 0 & \text{si } k \geq 3 \end{cases}$ DE PE TODAL BERAN IGNAL A CEAD.

#### ELEAPLO'



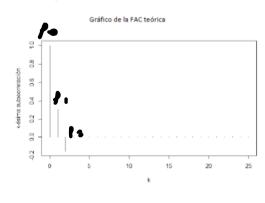
Q = -0.5 ; Oz = 0.2

01 + 402 = (-0.5)2 +4(0.2) >0

SE LUMPLEM LOS 3 COUDICIOUES DE INUENTIBILIONO 1021=10.2141; Orto, 41; Or- O141

## TAL TEORILA

$$\rho_k = \begin{cases} \frac{-\theta_1(1-\theta_2)}{1+\theta_1^2+\theta_2^2} & \text{si } k = 1\\ \frac{-\theta_2}{1+\theta_1^2+\theta_2^2} & \text{si } k = 2\\ 0 & \text{si } k \ge 3 \end{cases}$$



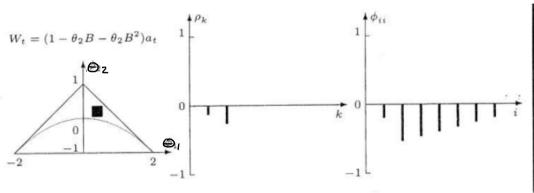
$$\rho_1^2 \le 0.5 \tag{1.41}$$

$$|\rho_2| \le 0.5$$
 (1.42)

$$\rho_1^2 \le 0.5 \tag{1.41}$$

$$|\rho_2| \le 0.5$$
 (1.42)

## REGION ROMUIBLE #2: DISCRIMINANTE DO Y OI DO



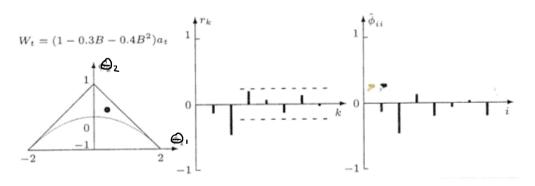
024402 >0

FAC TE O'CLEA

4 0170

$$\rho_k = \begin{cases} \frac{-\theta_1(1-\theta_2)}{1+\theta_1^2+\theta_2^2} & \text{si } k = 1\\ \frac{-\theta_2}{1+\theta_1^2+\theta_2^2} & \text{si } k = 2\\ 0 & \text{si } k \ge 3 \end{cases}$$

### ELEMPIO:



A: 0-3; A: 0.4

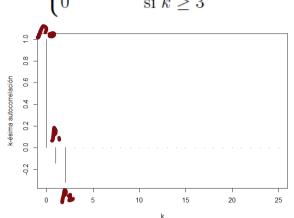
012+401 = (0.3)2+4(0.4)>0

CONDICIONES DE IMPERTIBILIDAD

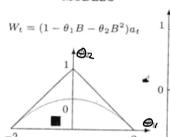
1021=104141 ; Oz+O1 = 0.7 <1 ; Oz-O1 = 0.1 <1

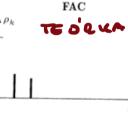
# FAC TEORICA

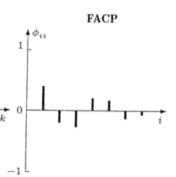
$$\rho_k = \begin{cases} \frac{-\theta_1(1-\theta_2)}{1+\theta_1^2+\theta_2^2} & \text{si } k = 1\\ \frac{-\theta_2}{1+\theta_1^2+\theta_2^2} & \text{si } k = 2\\ 0 & \text{si } k \ge 3 \end{cases}$$



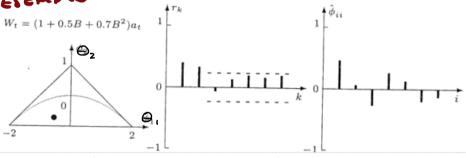
#### #3 : Dischimi WANTE CO ; BICO REGION ADMISIBLE







EIEMPLO



O1:-0.5; 02:-0.7

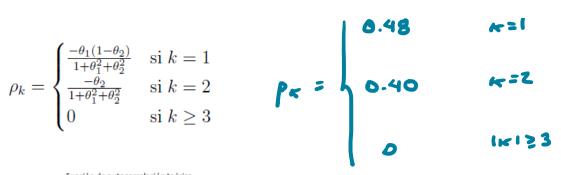
0,2+402: (-0.5)2+4(-0.7)<0

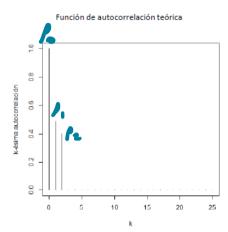
SE CHAPLEM LAS CONDICIONES DE INVENTIBILIDAD;

102141; 02+0141 ; 02-0141

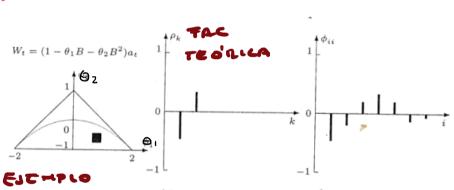
TAC

$$\rho_k = \begin{cases} \frac{-\theta_1(1-\theta_2)}{1+\theta_1^2+\theta_2^2} & \text{si } k = 1\\ \frac{-\theta_2}{1+\theta_1^2+\theta_2^2} & \text{si } k = 2\\ 0 & \text{si } k \ge 3 \end{cases}$$

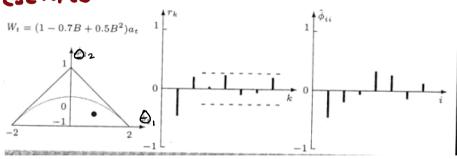




# DISCRIMINAUTE LO Y 8150



02+402 <0 es compleday



SE WHITEH LAD 3 COUPKINGS DE MUENTIEILIDAD.

$$\int \frac{-\theta_1(1-\theta_2)}{12\theta_1(1-\theta_2)} \quad \text{si } k = 1$$

$$\rho_{k} = \begin{cases} \frac{-\theta_{1}(1-\theta_{2})}{1+\theta_{1}^{2}+\theta_{2}^{2}} & \text{si } k = 1\\ \frac{-\theta_{2}}{1+\theta_{1}^{2}+\theta_{2}^{2}} & \text{si } k = 2\\ 0 & \text{si } k \geq 3 \end{cases}$$

$$\rho_{k} = \begin{cases} \frac{-\theta_{1}(1-\theta_{2})}{1+\theta_{1}^{2}+\theta_{2}^{2}} & \text{si } k = 2\\ 0 & \text{si } k \geq 3 \end{cases}$$

$$\rho_{k} = \begin{cases} \frac{-\theta_{1}(1-\theta_{2})}{1+\theta_{1}^{2}+\theta_{2}^{2}} & \text{si } k = 2\\ 0 & \text{si } k \geq 3 \end{cases}$$

$$\rho_{k} = \begin{cases} \frac{-\theta_{1}(1-\theta_{2})}{1+\theta_{1}^{2}+\theta_{2}^{2}} & \text{si } k = 2\\ 0 & \text{si } k \geq 3 \end{cases}$$

$$\rho_{k} = \begin{cases} \frac{-\theta_{1}(1-\theta_{2})}{1+\theta_{1}^{2}+\theta_{2}^{2}} & \text{si } k = 2\\ 0 & \text{si } k \geq 3 \end{cases}$$

$$\rho_{k} = \begin{cases} \frac{-\theta_{1}(1-\theta_{2})}{1+\theta_{1}^{2}+\theta_{2}^{2}} & \text{si } k = 2\\ 0 & \text{si } k \geq 3 \end{cases}$$

$$\rho_{k} = \begin{cases} \frac{-\theta_{1}(1-\theta_{2})}{1+\theta_{1}^{2}+\theta_{2}^{2}} & \text{si } k = 2\\ 0 & \text{si } k \geq 3 \end{cases}$$