Chapter 03-03

KTT Baulens ropons - Zeipés Fourier

Opiqoveal D1:

 $y = f(x) \cos(\omega t)$

H S(x) Elvai uns Goppis: St= ws

S(x)= A sin(kx+0) Evw 3 ouvoprakés ouvoh kes:

a) achornza ony Ela x=xo: y(xo,t)=0

B) KIVOULEVA ONGETA K=KO GE:

TOUV SE SELIEVN ONLIEURN Mafa: mo

Touvo. Edaznoio: F=-sylon)

-συνδ. εμβολο: $F = -b \dot{y}(x_0)$

οπότε από 20 ν. Ν:

 $m_0 \ddot{y}(x_0) = -Sy(x_0) - b\dot{y}(x_0) + T(\frac{\partial y}{\partial x}) - (\frac{\partial y}{\partial x}) = -\frac{1}{2}$

προγύπζει:

• On = 0

· Wn= Ckn=n·CII Un

· An = 8 A sinn # n=1, 35 ...