

## Análisis de Fourier

SERIE TRIGONOMETRICA VS SERIE EXPONENCIAL ANDRADE SALAZAR, IGNACIO

C, [cos(wt) - i sen(wt)] + CITCOS (we) + j sen (wt)] = COLLEGE CONTRACTOR CON C, cos(wt) + C, cos(wt) - j C, sen(wt) + J ( (sen(wt)) = [C, + C-1] cos(wt) + [jc,-jc] sentwt) 0,= 4, + 0, 6,= 1 (6-1+0,) G= + ST P(t) e Jut dt C, = + ST P Ct) e-Jut dt

Forma de Euler C-, = + ST PCE) [cos(we) de]+ JI STP(+) Sen (W+) of to JI ST P(t) sen(wt) de PO C-1+C1= 2 0+ P(t) Cos(wt)dt C-,+C, = a Entonces 00 - Co 0, cos (wt) + 6, sen (wt) = C-, e-jut + C, e jut azcoslwt) + bz senlwt) = C-ze-swt + Czeswt