

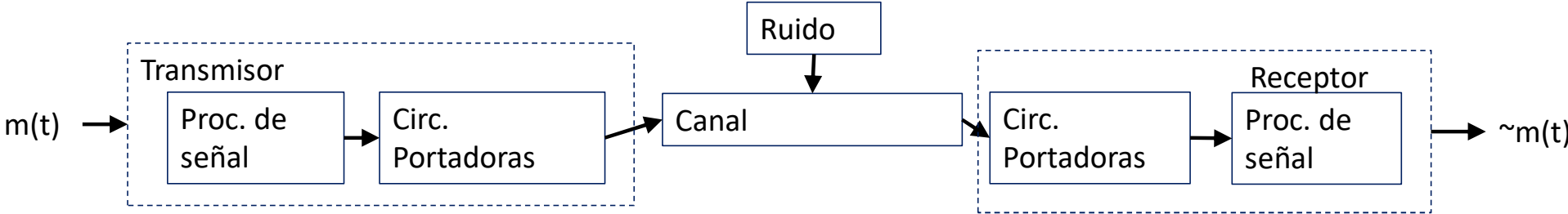


Universidad Tecnológica Nacional
Facultad Regional Haedo
Departamento de Ingeniería Electrónica

SISTEMAS DE COMUNICACIONES

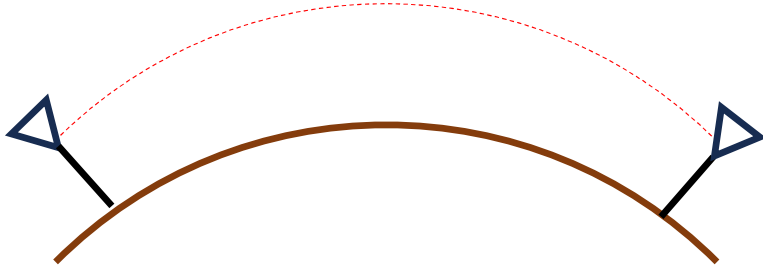
AM (con portadora)

Componentes de un SC



...

AM Radio difusión: Onda Terrestre



Onda terrestre:

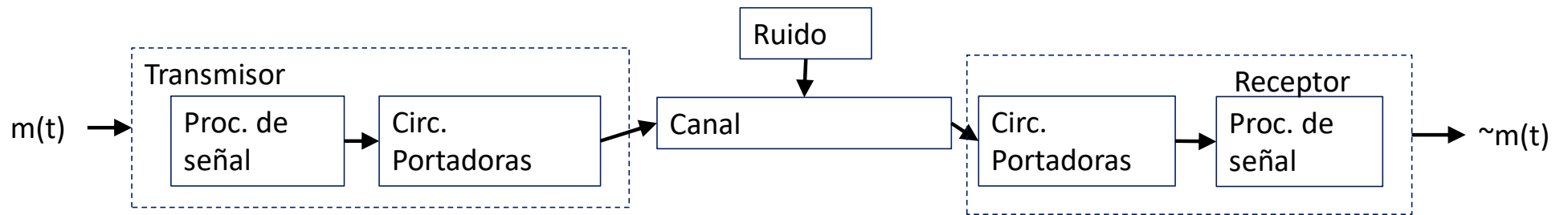
El suelo actúa como condición de contorno.

$F < 2\text{MHz}$

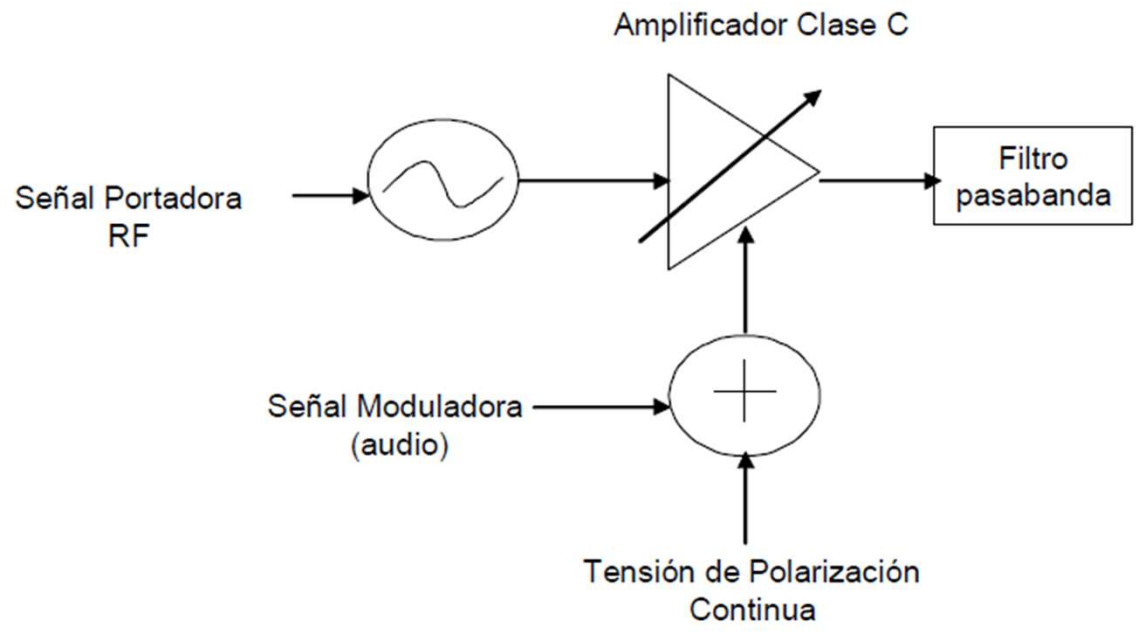
Frecuencias bajas => antenas grandes

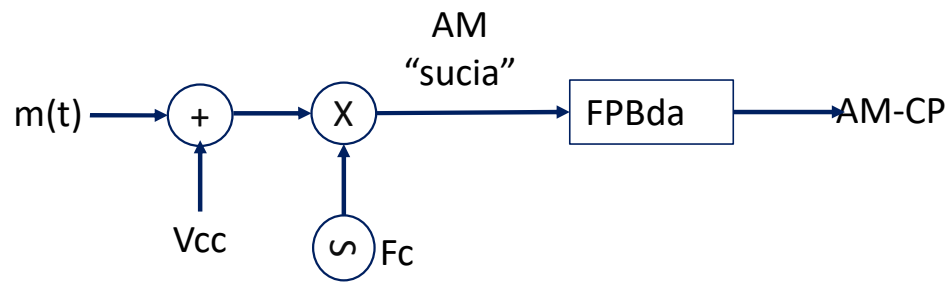
El suelo es un conductor imperfecto => disipa potencia

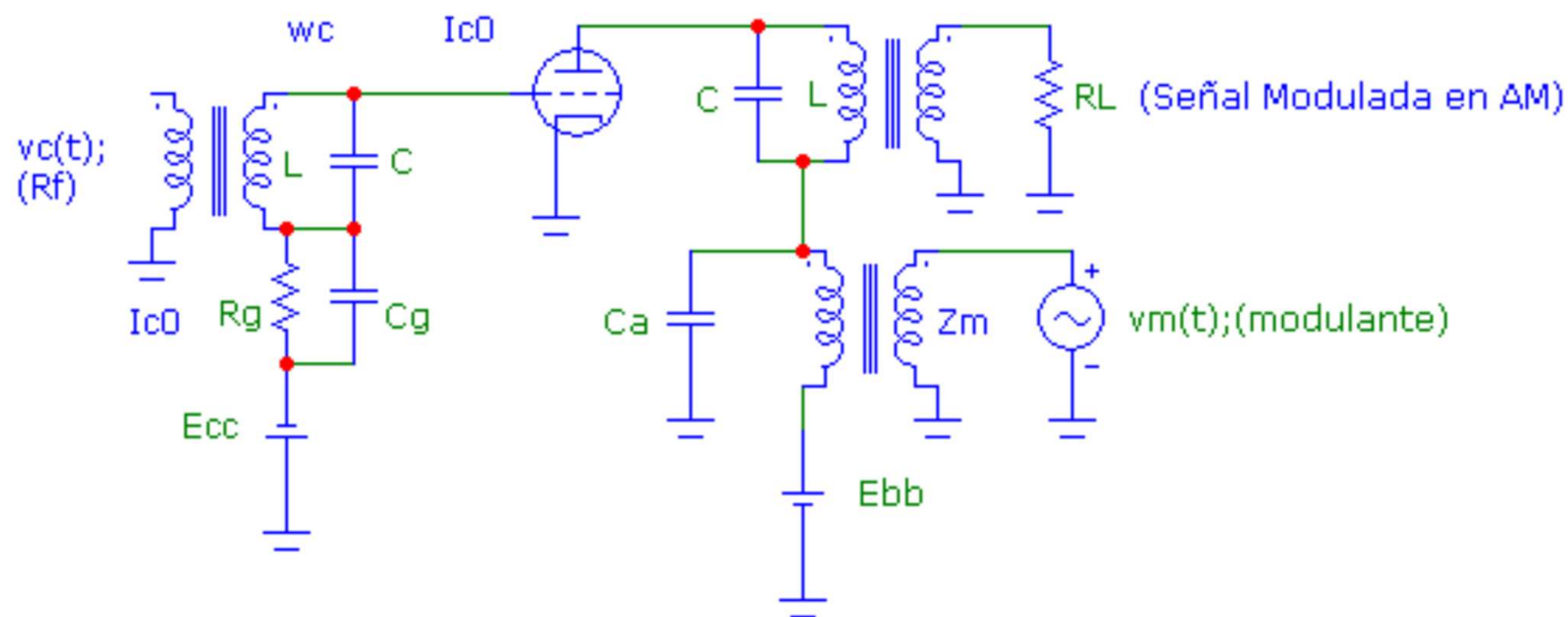
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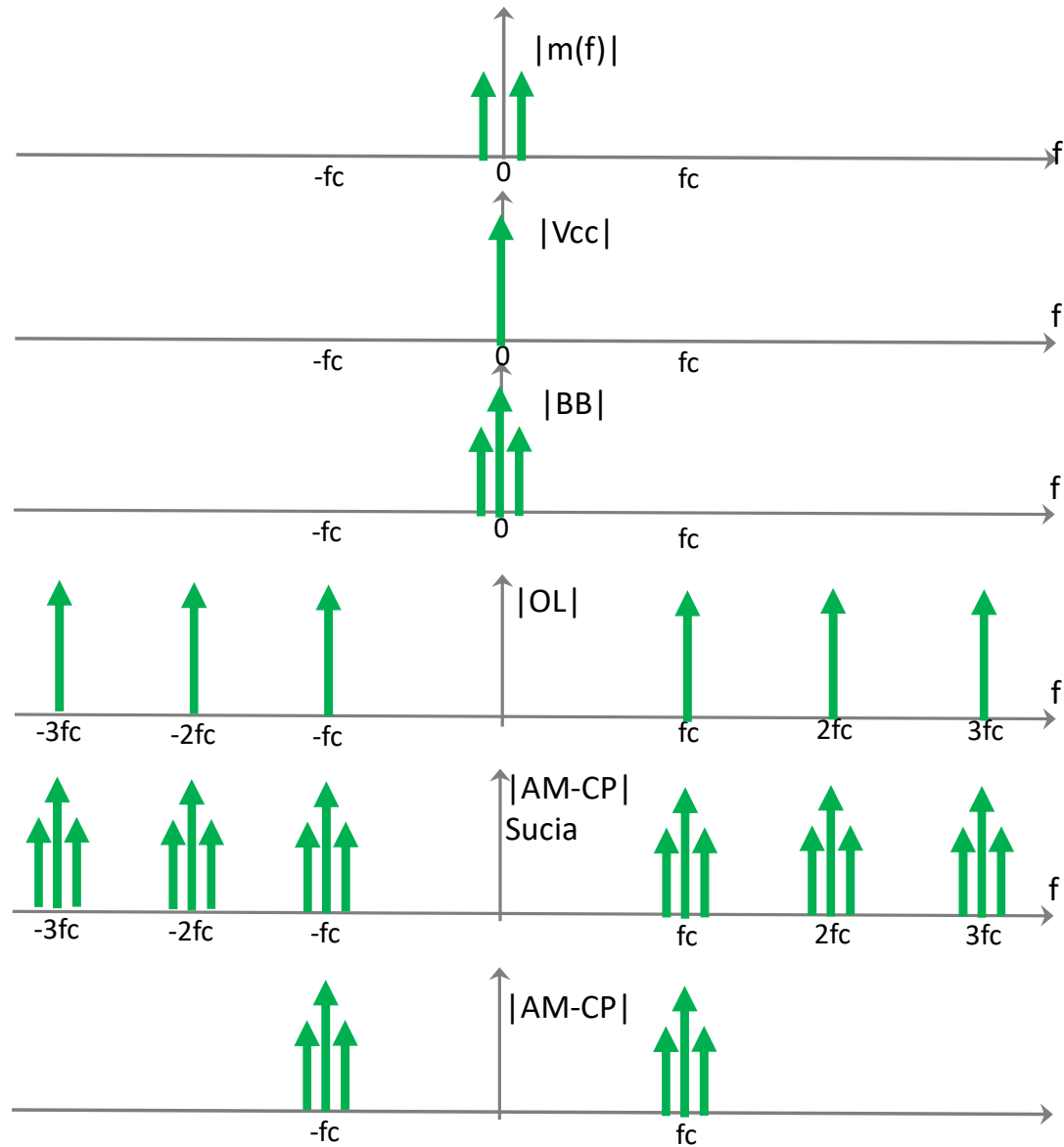


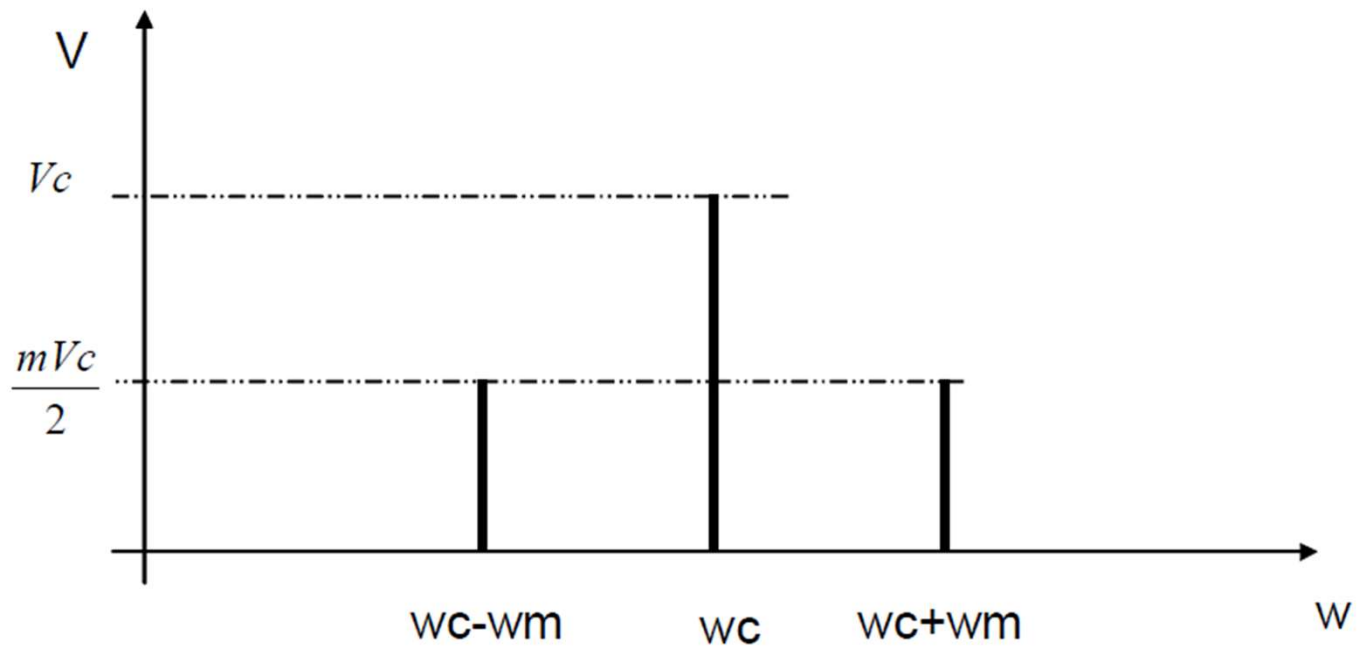
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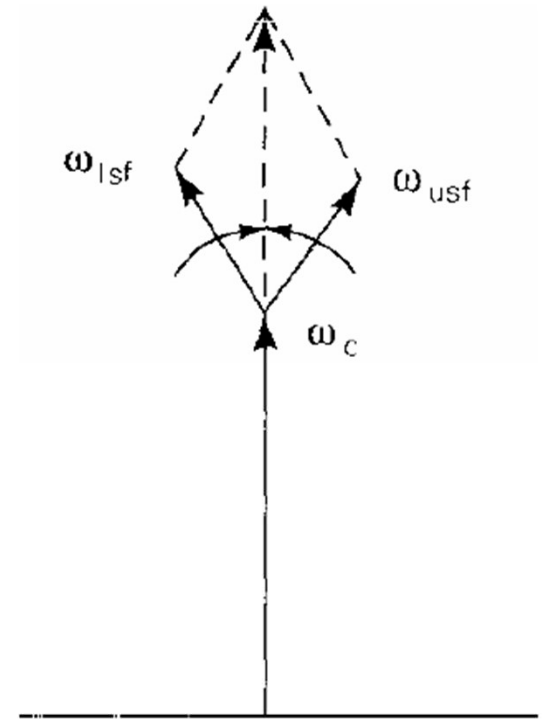






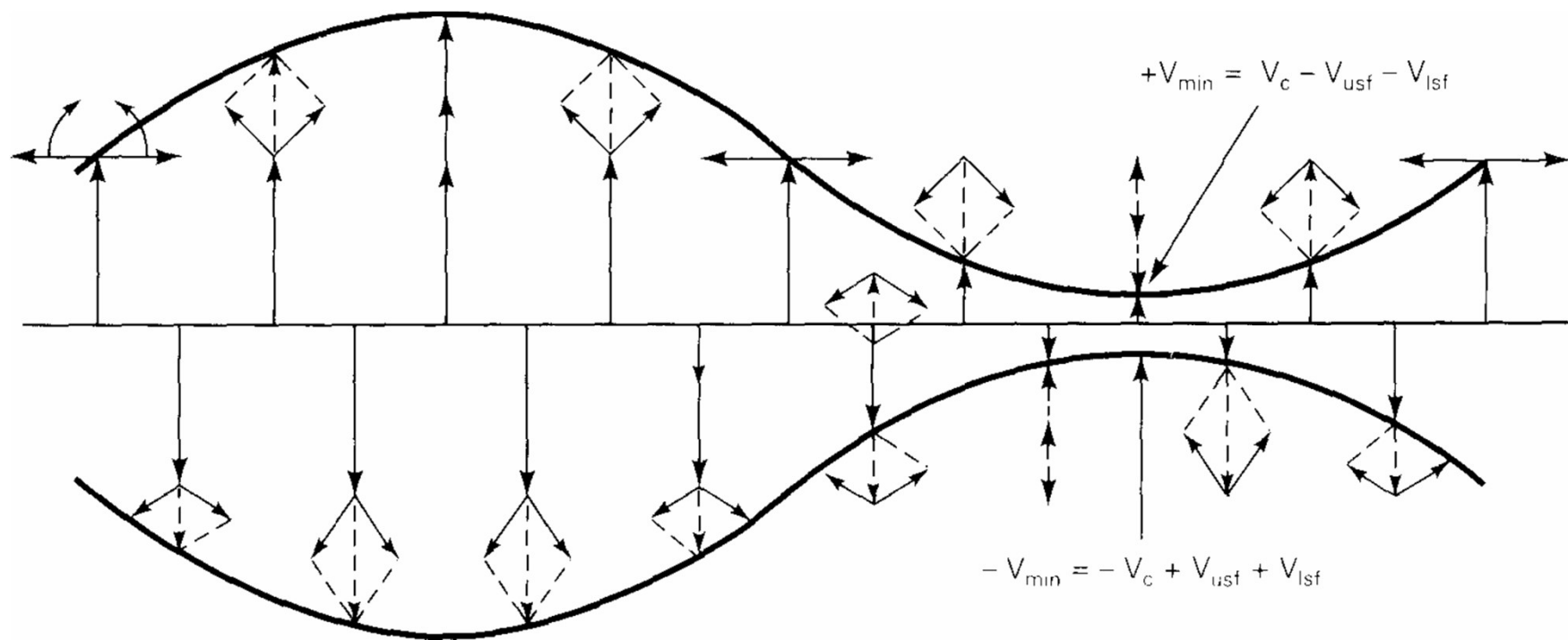


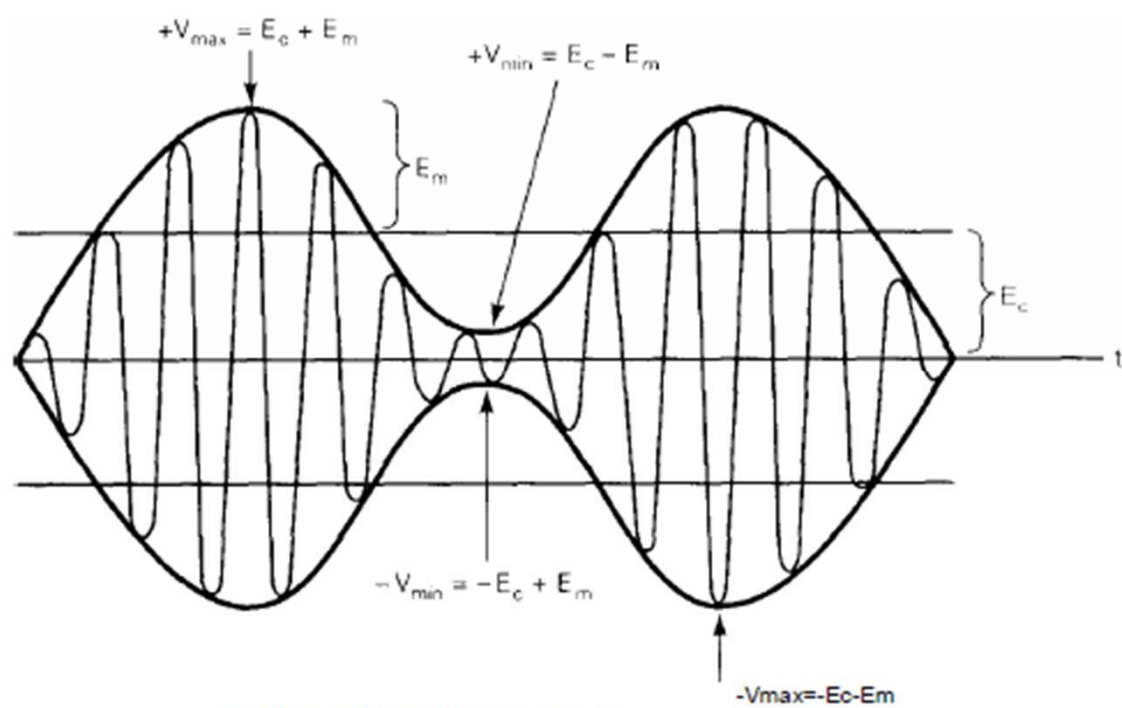
$$v(t) = V_c \cdot \sin \omega_c t + \frac{m \cdot V_c}{2} \cdot \cos(\omega_c - \omega_m)t - \frac{m \cdot V_c}{2} \cdot \cos(\omega_c + \omega_m)t$$





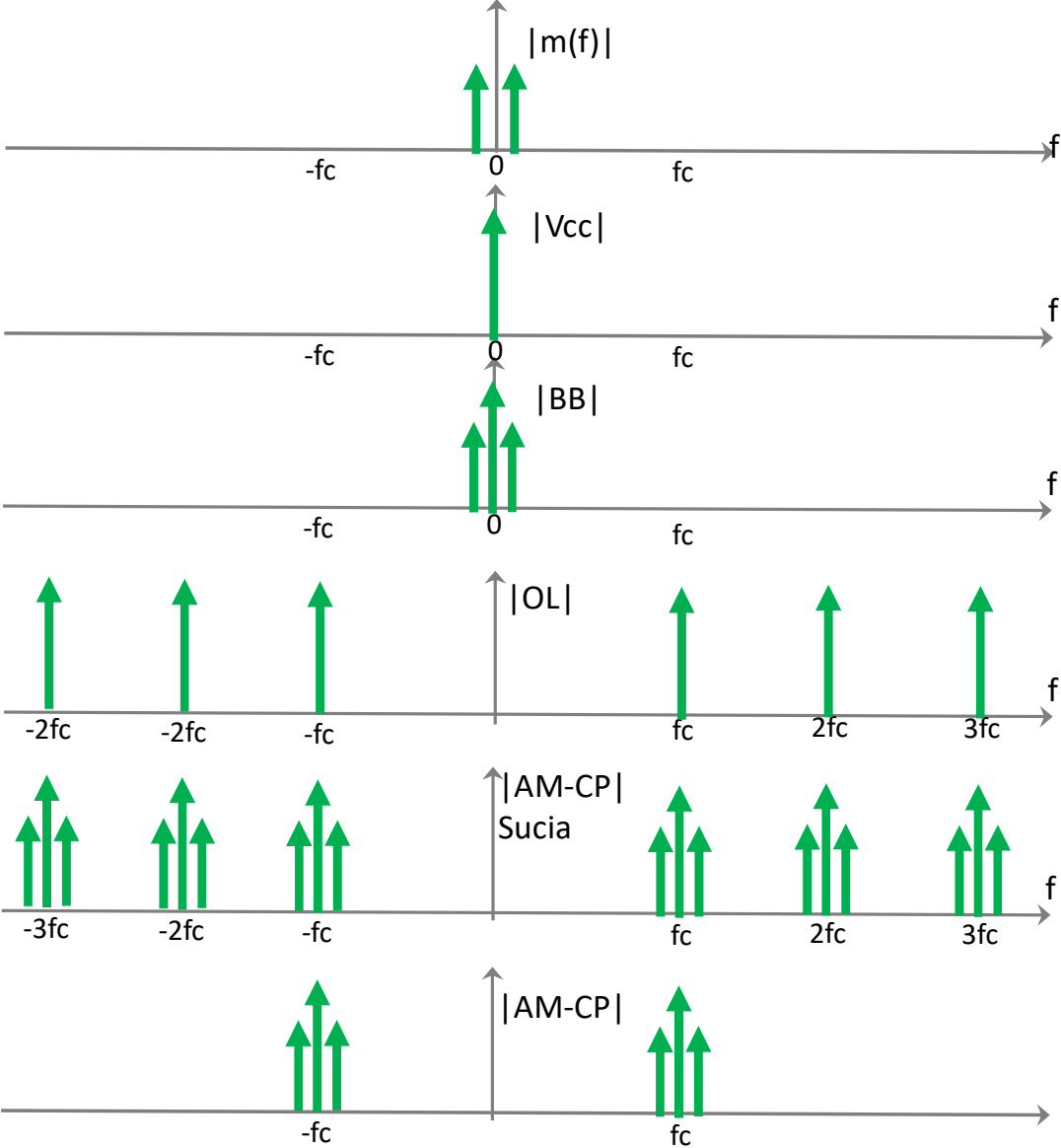
TORQUE_STUDIO



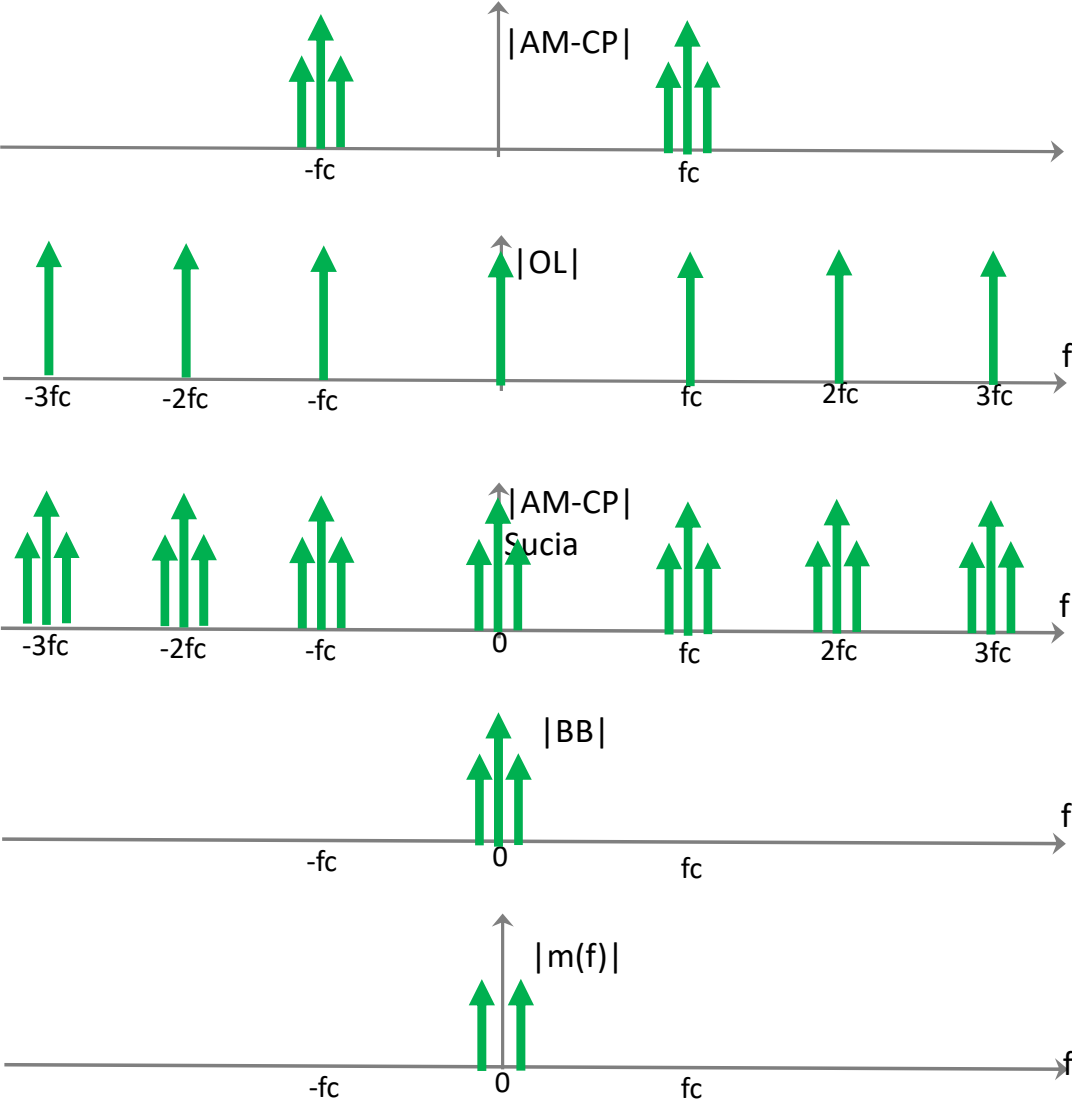


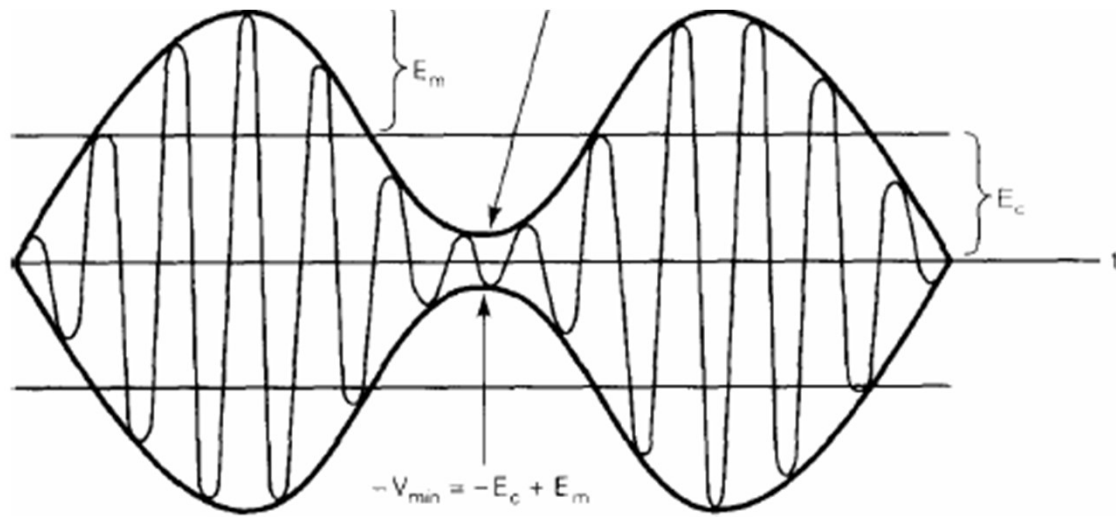
Coeficiente de modulación, E_m y E_c

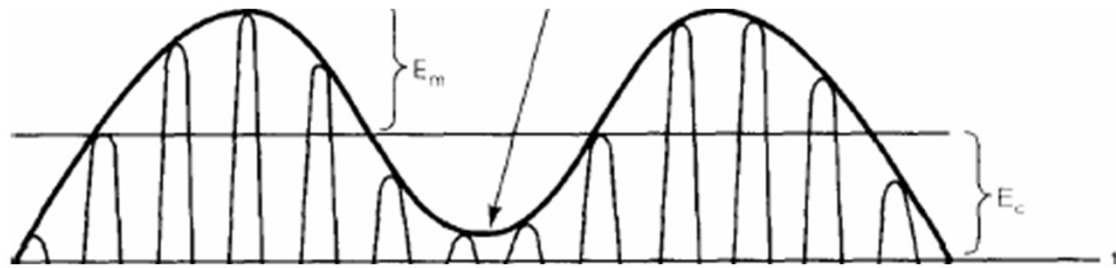
Modulación

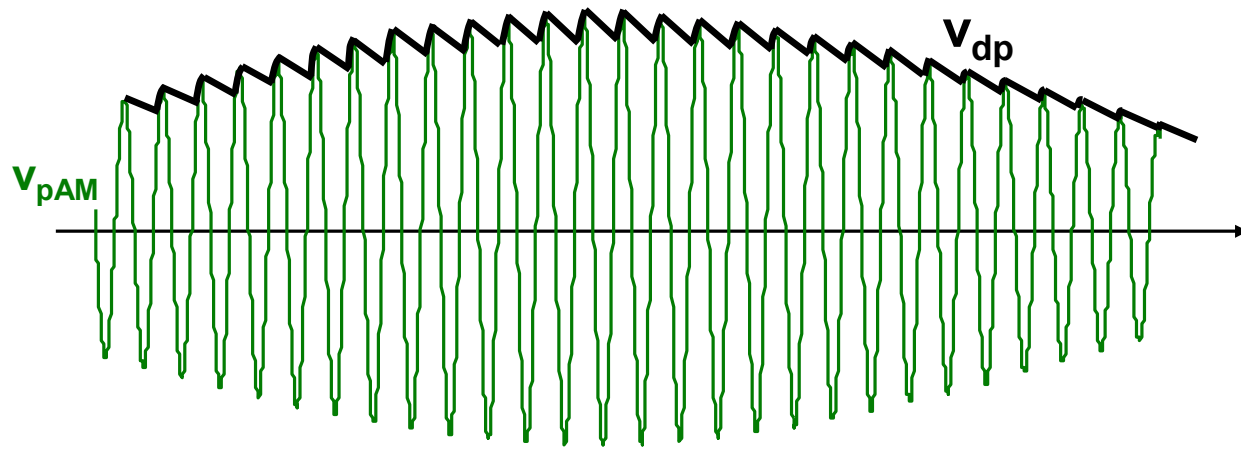
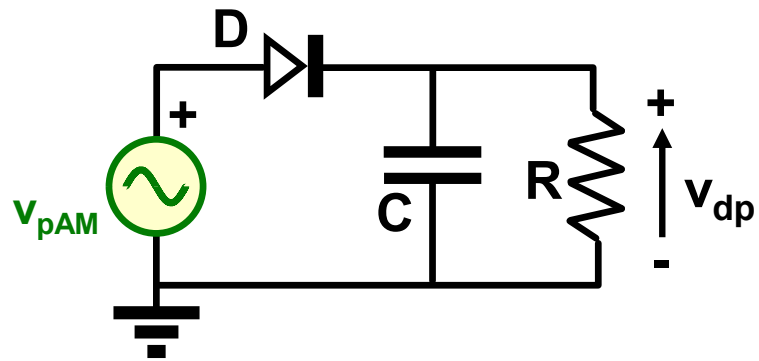


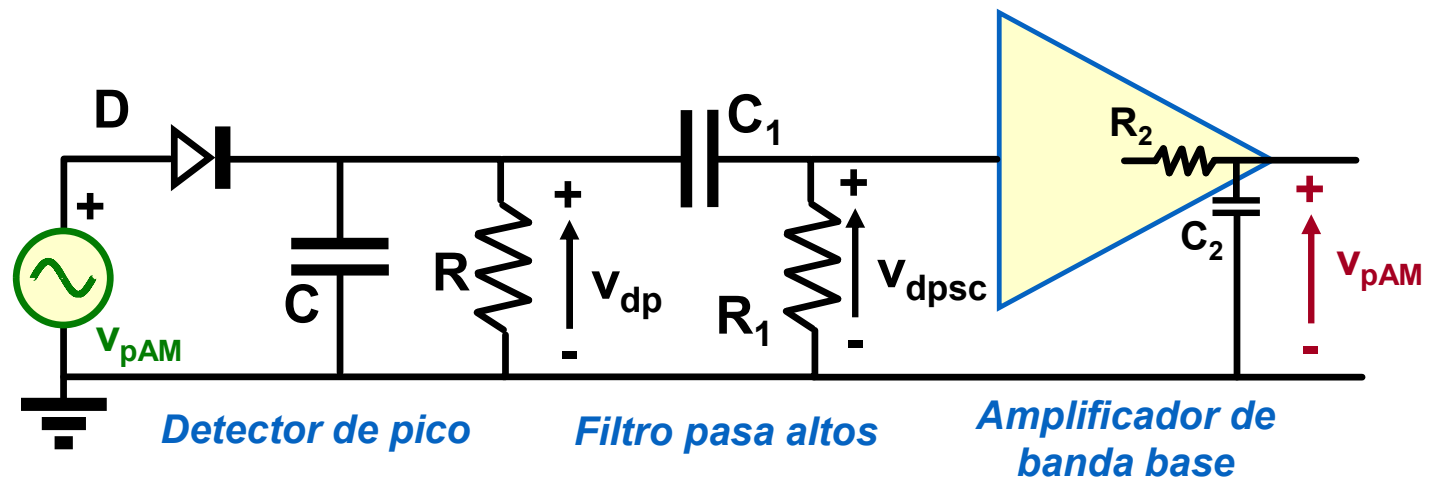
Demodulación

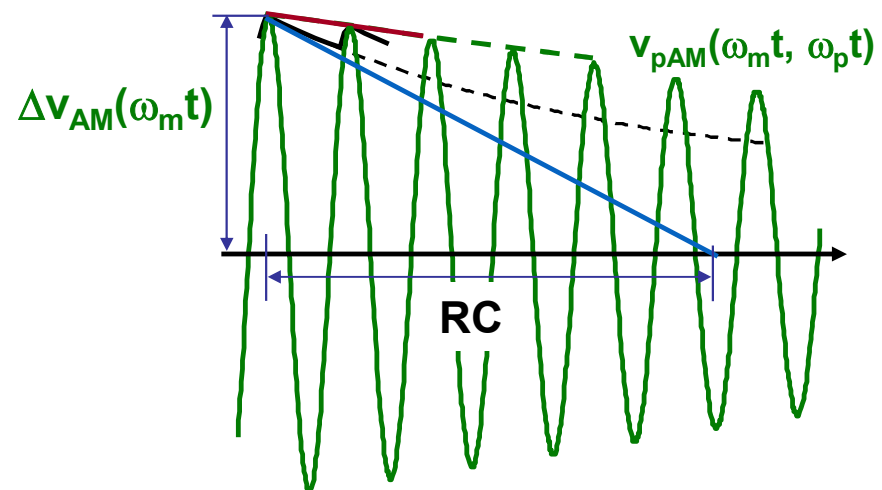


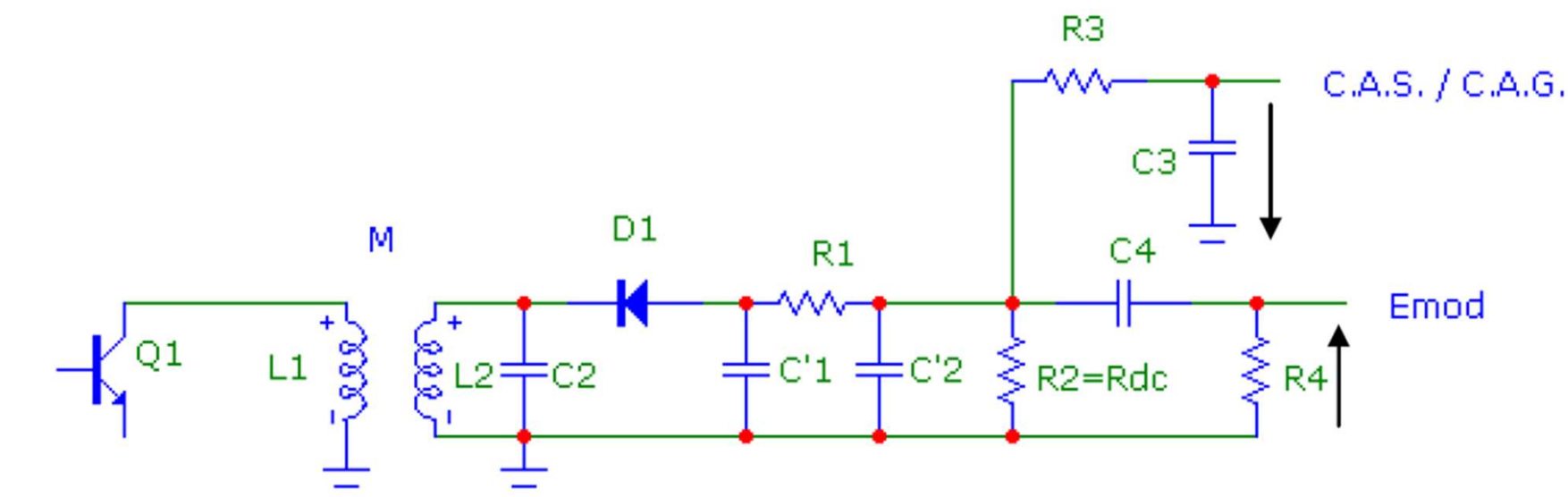












última etapa de F.I.
 Generador del Detector

Constituye un filtro de Rf, que provoca que la Rf se derive a tierra

