	Lecture 17 27-08-2019  Reviews.
_	Time domain representation of SSB paroband signal-  m(c) · cos (2π fct) - m(c) · sin (2π fct)  > -> × LPF ->  τος (2π fct)
	Quadratuse causies multiplexing. $m_1(t) \longrightarrow X$ $(0S(2\pi ht)) \longrightarrow PBC \longrightarrow BPF \longrightarrow A$ $m_2(t) \longrightarrow X$ $m_2(t$
	COS (2 Tht)  LPF $SIN(2\pi fet)$ $m_1 (05(2\pi fet) \cdot Sin(2\pi fet) + m_2 tf) sin^2(2\pi fet)$ Afr $m_2(t) = 2fe \times \frac{m_2(t)}{2}$ Advantage: of using the same channel B/W to send two signals.
	Complete basehand expresentation of pass band signals  Recall 35B: m(f) cos (2 tr (zt) - m (t) sin (2 tr ht)  -ft fc  Obvious Blwis diff.
	A general parband signal will have its spectra  P(b)  while down its time domain representation just like 88B.  General parband synal is real => P(-b) = P*(b)
	Complex baseband equivalent of the parband signal.  In SSB (m(t) + jmlt)  Consider a general parband signal.
	$ \begin{array}{c c} \hline  & \\  & \\$
	$B(f-fc) = P(f) \text{ (only tive freq past)} B^*(-(f+fc))$ $how how how to the -ive freq past?$ $P(-fc) = P^*(fc) = B^*(o)$ $P(-f) = P^*(f) = B^*(-f+fc) \times$ $how f < 0 \qquad P(f) = B^*(-f-fc) \times$ $o) f = -fc = B^*(o) \times$
	b) $f = -fc + \Delta f = B^*(fc - \Delta f - fc)$ $= B^*(\Delta f) \vee C$ $= B^*(\Delta f) \vee C$ $= B^*(\Delta f) + B^*(\Delta f)$ $= B^*(\Delta f)$
	how to get b(t) on B(f) from p(t) on P(b)? $(p(t) + jp(t)) \longrightarrow i + f$ $(p(t) + jp(t)) = -j^{2\pi f t}$
	Why do we do this?  The every signal can be that of atbase band.  2)
	BW O