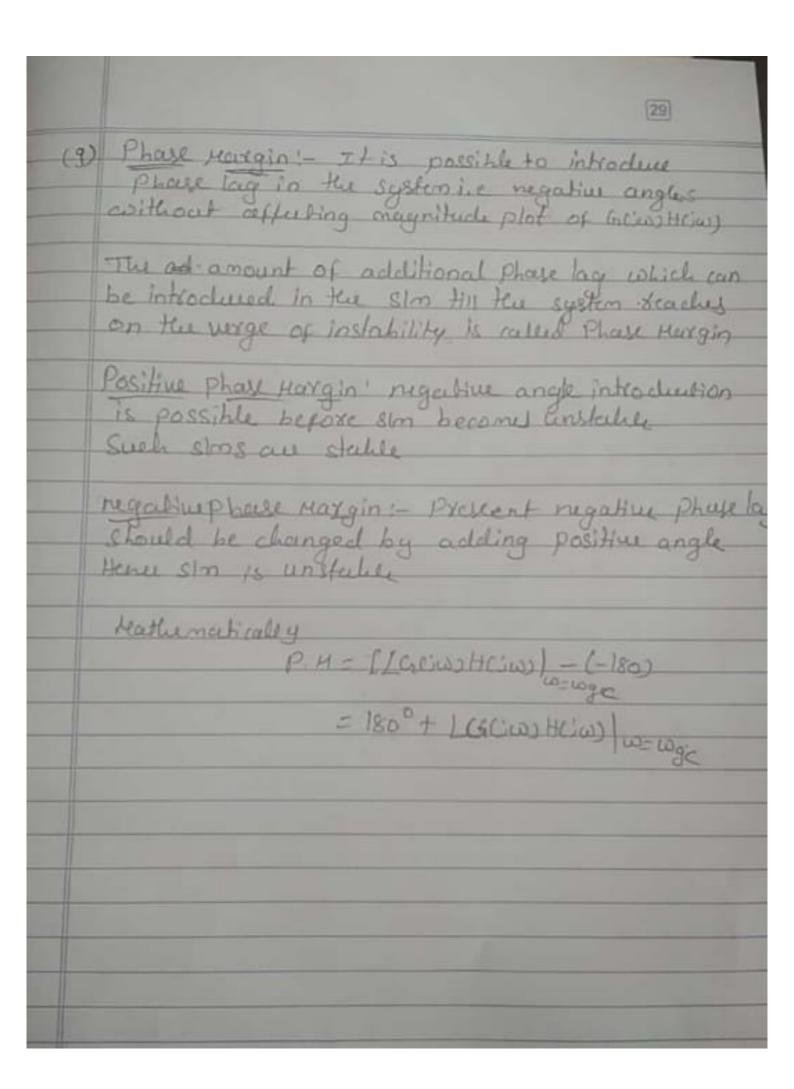
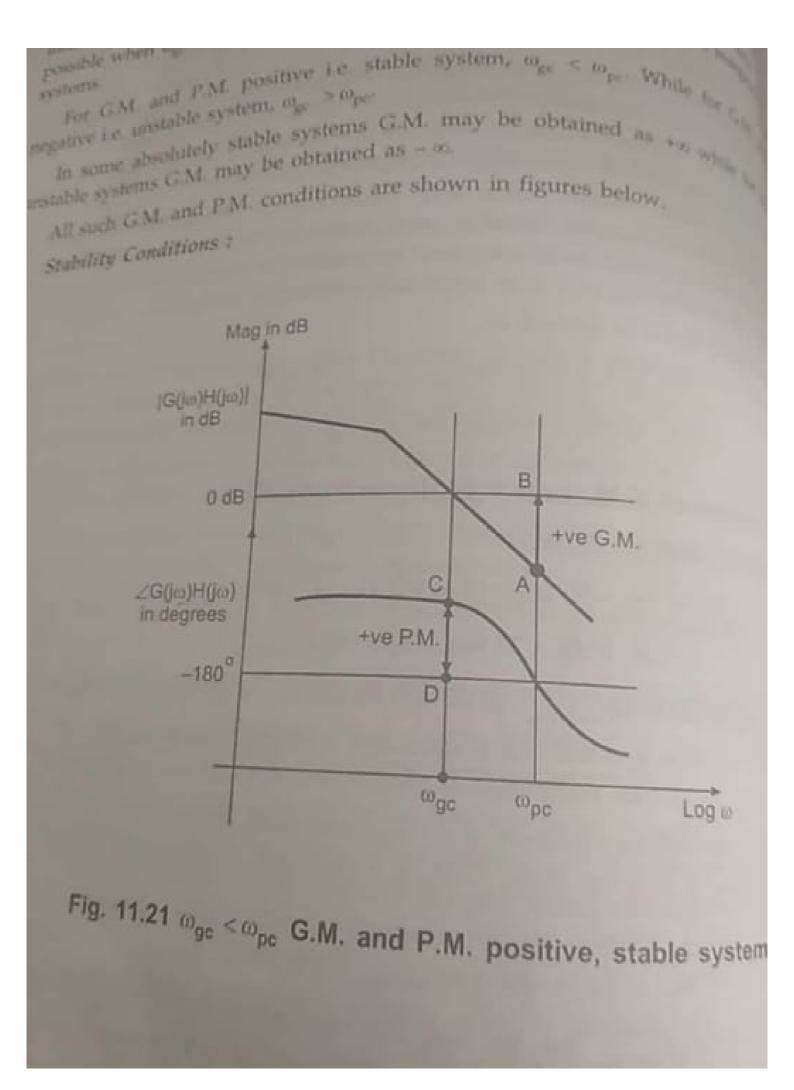


	the resonant peak by accurs in closed loop frequence
6)	Gain crossour frequency (wge) - The frequency at which magnitude of GCW) HCW) is unity is called Grain crossour frequency
7)	Phase (xossour frequency (copc) :- The frequency a which phase of Gricos Hicks is -180° is carried Phase crossour frequency
E	gain allocouble by collich gain can be intreased till slow reaches on the wage of Instability Positive Brain Hargin: In reuse in k is possible before the slow becomes unstable, hence slow I stable
n	egative crain Kargin !- K is greater than known and slm is unstable
Ko	Gr. H - Gr. Ciros Heiros Worker
	20 log [67 (; w) H(; w) w cope
	= -20 109 GEW HCLW / wewpey





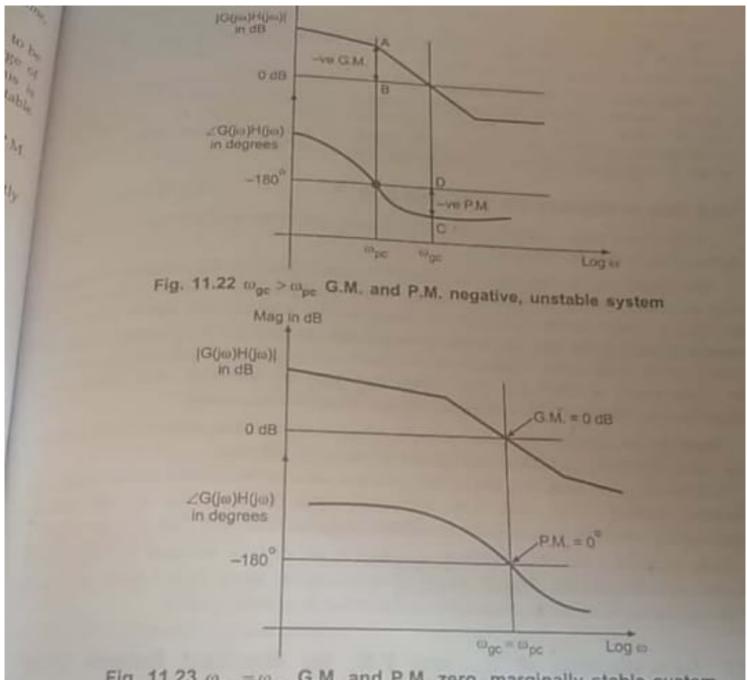


Fig. 11.23 $\omega_{gc} = \omega_{pc}$ G.M. and P.M. zero, marginally stable system

11.8 What should be Values of G.M. and P.M. of a Good System

It is obvious that a system should have gain which is lower than critical valu the system is far removed from unstable conditions.

This is necessary because for most of the systems the transfer function of co and systems changes with variation in temperature and pressures of su environment. Moreover the gains are also dependent on supply frequency, supply cading conditions, variations in control energy sources such as pneumatic air p neumatic systems).