Nationa, Care	Constitutive modelli	ing
YNU	Mod CAM CLAY MODEL - FORMULATION	
MCC.	1 Assume: The work dissipated during loading by unit volume is given by:	7
PEP + 9EP = P (EP) + (MEP)2	$dW^{p} = pd\xi^{p} + qd\xi^{p}_{d} = Mpd\xi^{p}_{d} \qquad ($	(1)
	2 Assume: The direction of plastic strain incrementation is normal to the yield function	nt
	$d\mathcal{E}_{q}^{f} = \Delta \frac{\partial f}{\partial \rho} ; d\mathcal{E}_{q}^{f} = \Delta \frac{\partial f}{\partial q} $)
	$(2)(1) \cdot p \frac{9f}{9p} + q \frac{9f}{9q} = Mp \frac{9f}{9q}$)
	3 Consistency condition: stress point cannot be own the yield locus:	ndi
	$(3) \frac{2f}{2p} dp + \frac{2f}{2q} dq = 0 \qquad (6)$	
	$(3) \mathcal{E}(4) \Rightarrow \frac{\partial q}{\partial p} = \frac{q}{p} - M$	
	$\frac{\partial q}{\partial p} = \int \left(\frac{q}{p} - n\right)^{2} dp$	
	$\Rightarrow q = Mp(lnp + c)$	
	When 9/p=0; p=pc	
	=> Cam-clay yield locus:	
MCI	q = Mpln =	
MC(J= 9/12p + (pc-p)p	a: f= 9+ MplnPpc	