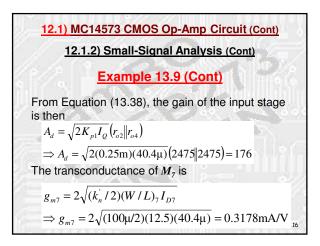
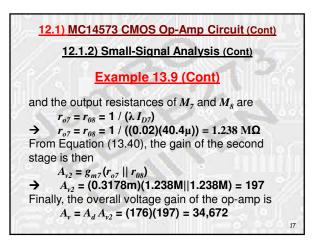
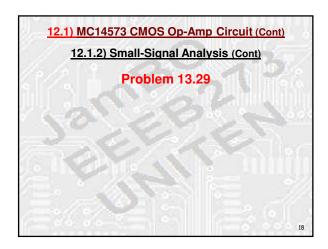
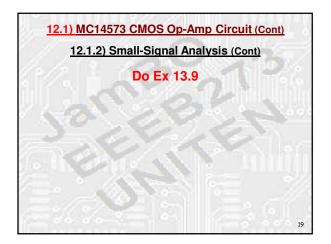


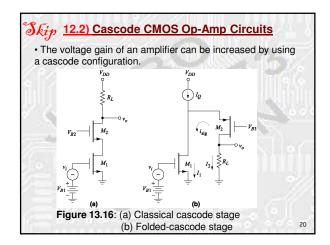
12.	1) MC14573 CMOS Op-Amp Circuit (Cont)	
	12.1.2) Small-Signal Analysis (Cont)	
	Example 13.9 (Cont)	
<i>M</i> <sub>2</sub> a	tion: The conduction parameters of $M_1$ and re $K_{p1} = K_{p2} = (k'_p/2)(W/L)_1$ $K_{p1} = K_{p2} = (40\mu/2)(12.5) = 0.25 \text{ mA/V}^2$	
	he output resistances are $r_{o2} = r_{04} = 1 / (λ I_D)$ $r_{o2} = r_{04} = 1 / ((0.02)(20.2\mu)) = 2.475 MΩ$	
		15

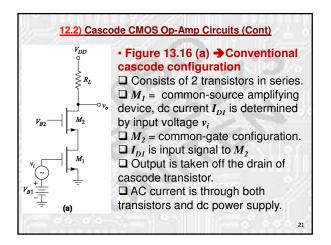


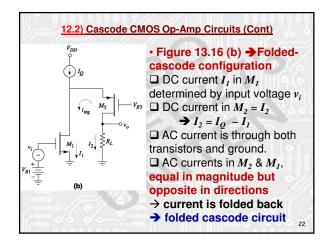


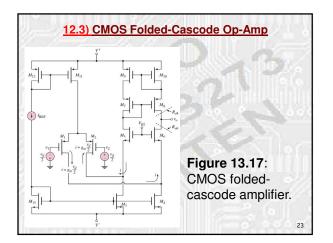


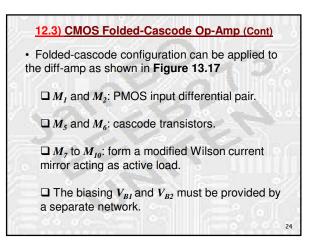


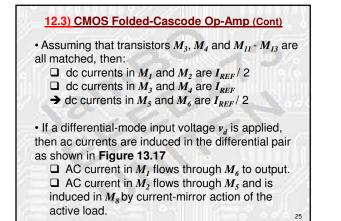


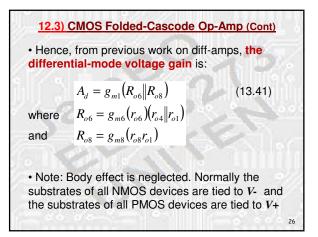


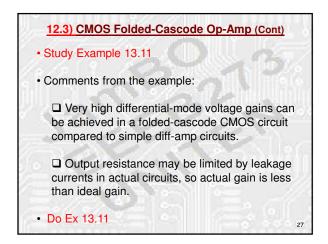


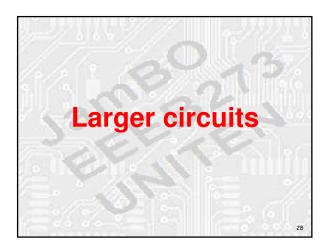


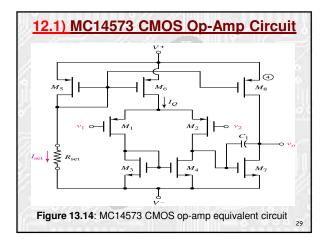


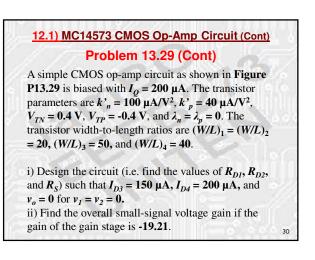


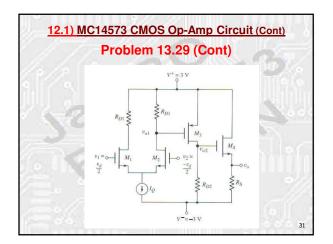


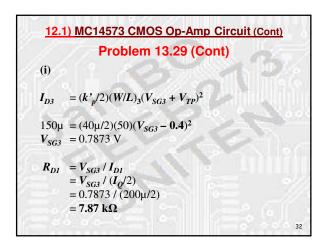


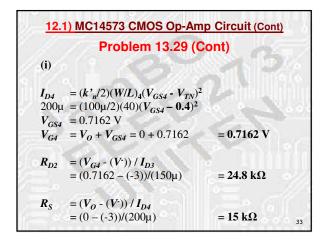












	Probler	n 13.29 (C	Cont)	
(ii)			CONTRACTOR OF CO	
Adl	$=(g_{m1}R_{D1})/2$			
$g_{m1}$	= 2 SQRT[ $(k'_n/2)(W/L)_1(I_0/2)$ ]			
	$= 2 \text{ SQRT}[(100\mu/2)(20)(200\mu/2)]$			
	= 0.6325  mA/V		22 S	
A <sub>d1</sub>	=((0.6325m)(7.5))	87k))/2	= 2.49	
$A_2$	= -19.21	(given)		
$A_3$	=1	(assume)		
A	$= A_{d1} \times A_2 \times A_3$			