

PL(t)
$$P_{D}(s) = P_{Lo} + P_{D}(s) + P_{D}(t)$$

where $P_{D}(s) = \frac{\alpha_{0}p}{1 + b_{0}ps}$
 $Q_{L}(t) = Q_{Lo}(s) = Q_{0}e$

| wt | we o | $a_{LD}(s) = \frac{\alpha}{1+b}$ | <u>۵۰ د</u> | | | |
|--------------|---------|----------------------------------|----------------|-----------------------------|---------------------------------|------------------------|
| 4 (1) | t 5- | V(4) | PL(t) 0.900 | Q _L (t) 0.300 | QC(t) PL(t) PL0+M'+G+ Qop | QL(+) QLo+H+B+ 900 |
| | 5+ | 0.90 | 0.842 | 0.290 | PLO + 0.9M+0.819+ 9-p | QL0+0.9H+0.818 +9.00 |
|) 1p (41) | 100 5+ | Tp=10.90 | 0.8104 | - | bop = 4.5 | bog= 2 |
| 19 | 200 5+ | TQ770.90 | - | 0.2774 | - | |
| (111) | 20- | 6.90 | 0.792 | 0.270 | PLO+ 0.9 M +0.81 5+ 0.990p | RECO+ 818.0+ NE. 0+-19 |
| | 20 | 51.10 | 0.912 | 6.290 | PL-+1.1M+1.219 +0.9a.p | QL+1.14+1.21B+0.3a. |
| 020 | 20+ | Tp=21.10 | 0.9752 | - 0150 | b=9-5 | - |

$$(iii) - (iii) = 0.100p = 0.05$$

$$0.100p = 0.05$$

$$0.100p = 0.02$$

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box = 2

Thus
$$P_{L}(t) = 0.2 \text{ V} + 0.2 \text{ V}^{2} + P_{p}(t)$$
where $P_{Lp}(s) = \frac{0.5}{1 + s \cdot 4.5}$

$$Q_{L}(t) = 0.1 \text{ V}^{4} + Q_{Lp}(t)$$
where $Q_{Lp}(s) = \frac{0.2}{1 + s \cdot 2}$