3:0.1487 (1- w) 2 (25m 2 P(w) = - arctan = = -1057° D= | A(w) - 1/ ×10% = 31/2 0 φ = -arctan 25 0 - _ 10.57° 4 = 0.787. A(w) = 0.97 $9(w) = -43^{\circ}$ 7 = 10.97 - 11 = 3%. $09 = -43^{\circ}$ 2. 11)一所测量系统 11) 2 = X $\frac{mnP}{q}\frac{d}{dt} \times + X = \emptyset$ mnp . 5 X(5) + X(5) = \$ (5) (3)

$$\frac{\chi(s)}{\frac{1}{2}(s)} = \frac{1}{1 + \frac{mnp}{q}s} = \frac{q}{q + mnps}$$

$$\frac{\chi(1)w}{\frac{1}{2}(jw)} = \frac{q}{q + mnpjw}$$

$$(4) \quad \frac{\chi(1)w}{\frac{1}{2}(jw)} = \frac{q}{q + mnpjw}$$

$$\frac{\chi(1)w}{\frac{1}{2}(jw)} = \frac{q}{q + mnpjw}$$

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$$\frac{\chi(1)w}{\frac{1}{2}(jw)} = \frac{q}{q + mnps}$$

$$\frac{\chi($$