



دانشگاه زنجان

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### Schiffman phase shifter

استاد راهنما: دکتر علیرضا شریفی

شهریور 95



















**Midline Average**

$$\bar{u} = \frac{60 \left[ \frac{8}{9} + \frac{9}{4} \right] p}{120} \quad (4-1)$$

$$= \frac{[9 + 1.393 + 0.667(9 + 1.444)]}{2[9 + 1.393 + 0.667(9 + 1.444)]} \quad (5)$$

$$\bar{u} = \frac{8A^2}{A^2} = \frac{2}{2} = 1 \quad (5-1)$$

$$\# = \frac{377}{60} \left[ \frac{2}{2} + 1 \right] + \frac{1}{2} \left[ 10.23 + \frac{0.11}{2} \right] p$$

$$\$ = \frac{377}{2 \times 2} = \frac{377}{4}$$

$$\dot{U}_x = \frac{2(2)(1)}{2(2)(1)} = 1 \quad (6-1)$$

$$\dot{U}_x = \frac{2}{2} = 1 \quad (filling factor)$$

$$\frac{Y_a(2-1)}{2(2-1)}$$











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