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DATE

10-4-68

SUBJECT OF EXPT.

COX'S

$$Y = \frac{2}{3} \frac{P}{W^2 - 1} (2W^2 + 1)$$

$$W = \frac{\text{outside dia}}{\text{inside dia}} \quad P = \text{PRESSURE UNIT}$$

$$Y = \text{STRESS}$$

$$= \frac{1.15}{1.10} = 1.05 \quad W^2 = 5.19$$

$$Y = \frac{2}{3} \frac{84000}{4.19} = 11.38$$

$$= 152000$$

AVERAGE S USING LAMES $P_0 = 0$

$$S = \frac{P (K_1^2 + \frac{K_2^2 r_2^2}{r_1^2})}{r_2^2 - r_1^2}$$

Substituting

$$r = .750 \quad S_1 = 123,000$$

$$r = .330 \quad S_2 = 80,600$$

$$r = .412 \quad S_3 = 57,200$$

$$r = .494 \quad S_4 = 45,600$$

$$r = .576 \quad S_5 = 38,800$$

203,600

132,800

680

102,800

84,400

EXPERIMENTER

DATE

WITNESS

DATE