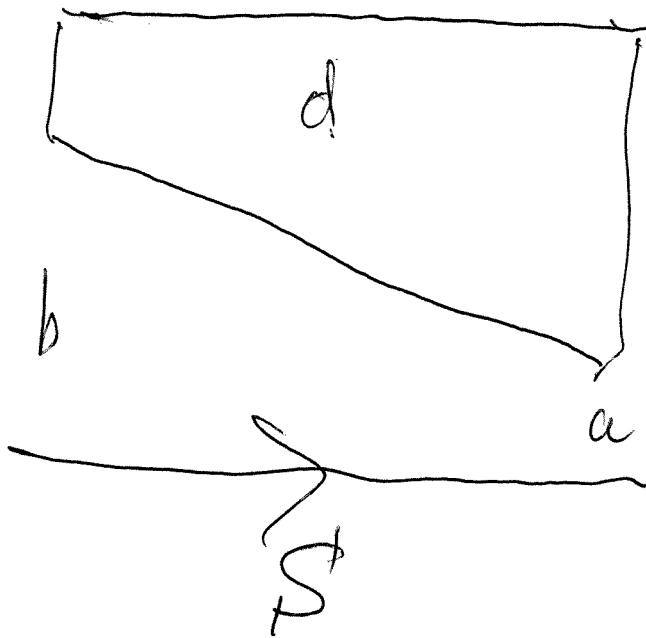
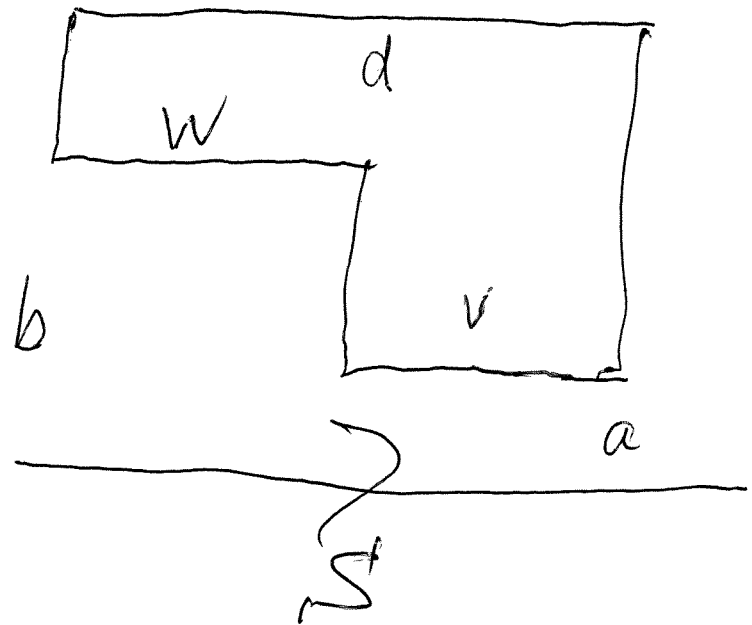


BEARING ILLUSTRATION

WEDGE



STEP



LAB BEARING DATA

FRONT GAP $b = 1 \text{ mm}$

BACK GAP $a = 0.5 \text{ mm}$

SPAN $d = 10 \text{ cm}$

OIL VISCOSITY $\mu = 0.1 \text{ Ns/m}^2$

OIL DENSITY $\rho = 990 \text{ kg/m}^3$

GRAVITY $g = 9.81 \text{ m/s}^2$

BELT SPEED $S = 0.5 \text{ m/s}$

$$6 \mu S = 0.3$$

WIDE
~~LONG~~ WEDGE BEARING

BEARING SLOPE

$$\lambda = \frac{a-b}{d} = +0.005$$

CONSTANTS

$$A = \frac{2H (a^2 b - b^2 a)}{(b^2 - a^2)} = -0.0002$$

$$B = \frac{H}{\lambda(b+a)} \approx -40000$$

PRESSURE @ PINT $x = 0.025 \text{ m}$

$$P \approx - \frac{H}{\lambda(\lambda x + b)} - \frac{A}{2\lambda(\lambda x + b)^2} + B$$

$$P = 96000 - 51200 - 40000$$

$$= 4800$$

~~HRAD~~

$$\frac{P}{P_g} = \frac{4800}{890 \pm 1.81} \approx 0.55m$$

WIDE
~~LONG~~ STEP BEARING

$$\Delta P = \frac{-H(a-b)}{\frac{a^3}{V} + \frac{b^3}{W}} = 6666$$

HEAD

$$\frac{\Delta P}{\rho g} = \frac{6666}{890 \times 9.81} = 0.76 \text{ m}$$

CPD Open hole time

beam beams

0

0.0260

0.1645

0.2364

0.2993

0.3441

0.3491

0.2669

0

Annex B

0

0.1752

0.2782

0.3323

0.3491

0.3323

0.2782

0.1752

0

CP: Blocked July Case

Down Beany

0

0.1419

0.2792

0.4046

0.5062

0.5645

0.5460

0.3929

0

Amey Bann

0

0.5460

0.5460

0.5460

0.5460

0.5460

0.5460

0.5460

0