Problem III

A helical gear train has specified numbers of teeth, helix angles, normal module and normal pressure angle ($\phi_b = 0.35$ rad.). The input shaft speed is 550 rpm and transmitted horsepower is 20 kW.

3-1. The train ratio is equal to

1.2

b. 5.0

Tate I the continues and a selection of

c. 2.5

d. 0.2

3-2. The motor torque is equal to

a. 316.9 N.m

b. 761.8 N.m.

c. 347.24 N.m.

d. 868.1 N.m.

3-3. The diameter of the pinion is

a. 9.166 mm

b. 91.16 mm

c. 106.45 mm

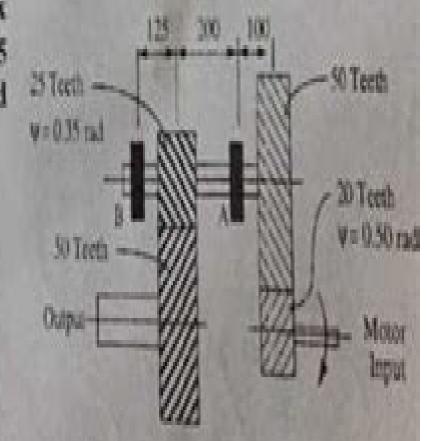
d. 10.645 mm

3-4. The transmitted load on the input side is

4.7618 N

b. 3169 N

c. 34724 N



Note to a 4 min for all years

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