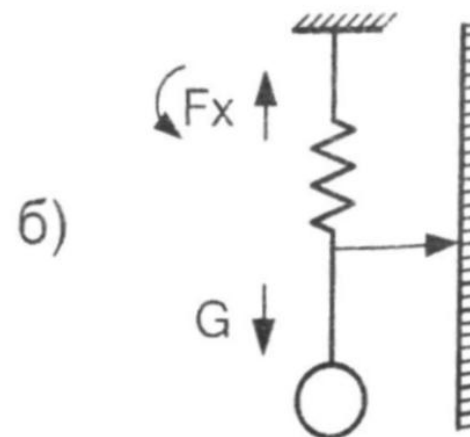
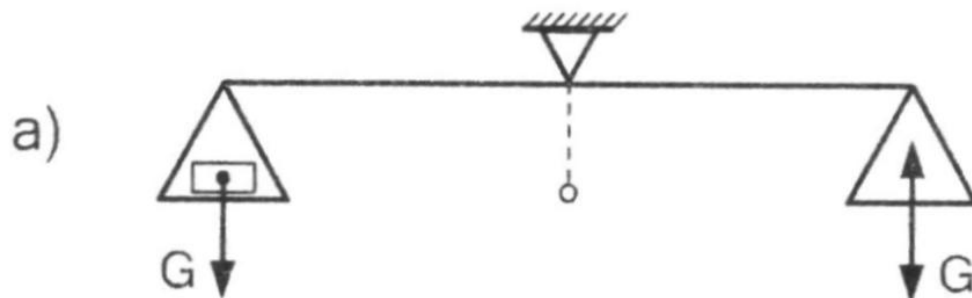




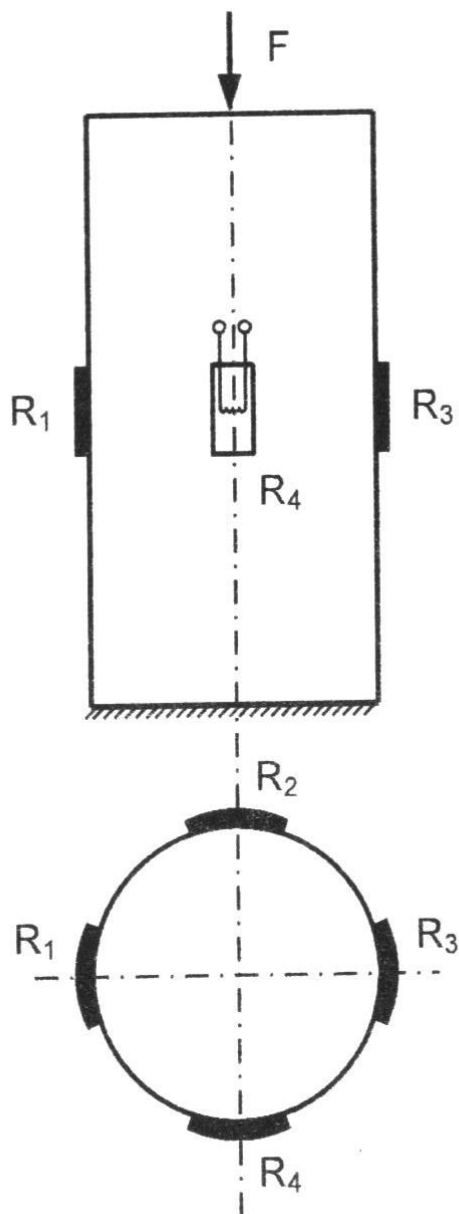
Merenje sile

Merenje sile

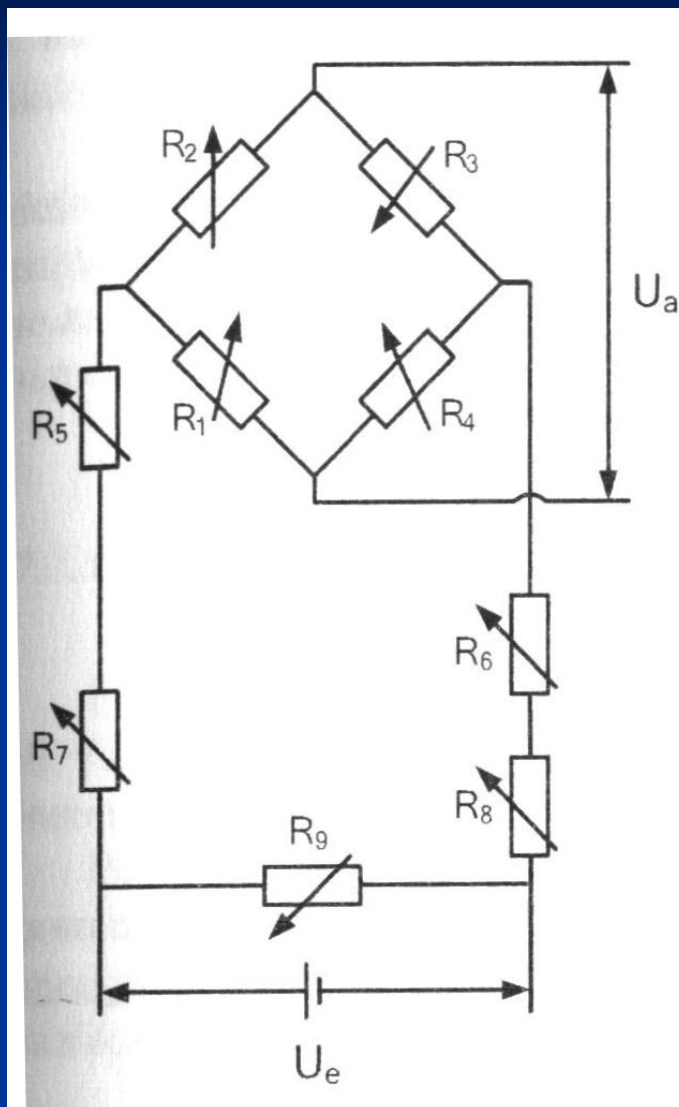


Merenje sile a) direktnim upoređivanjem, b) indirektnim upoređivanjem

Davači sile sa mernim trakama



Davači sile sa mernim trakama



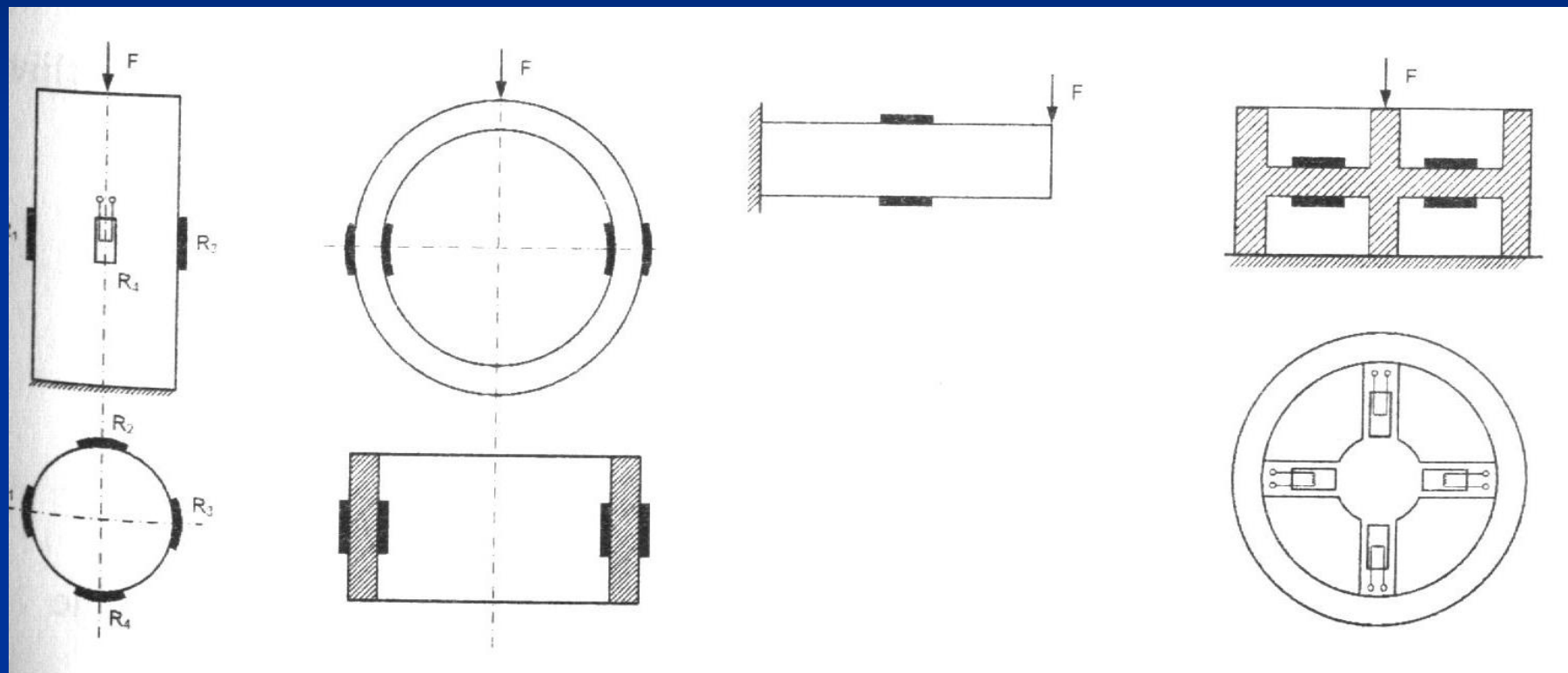
R_1, R_2, R_3, R_4 – aktivne merne trake,

R_5, R_6 – merne trake za konpenzaciju
temperature,

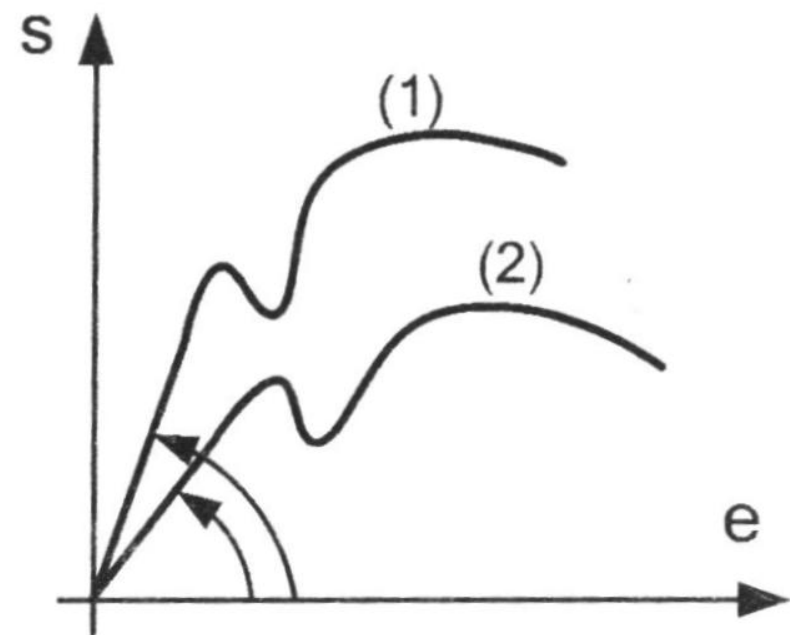
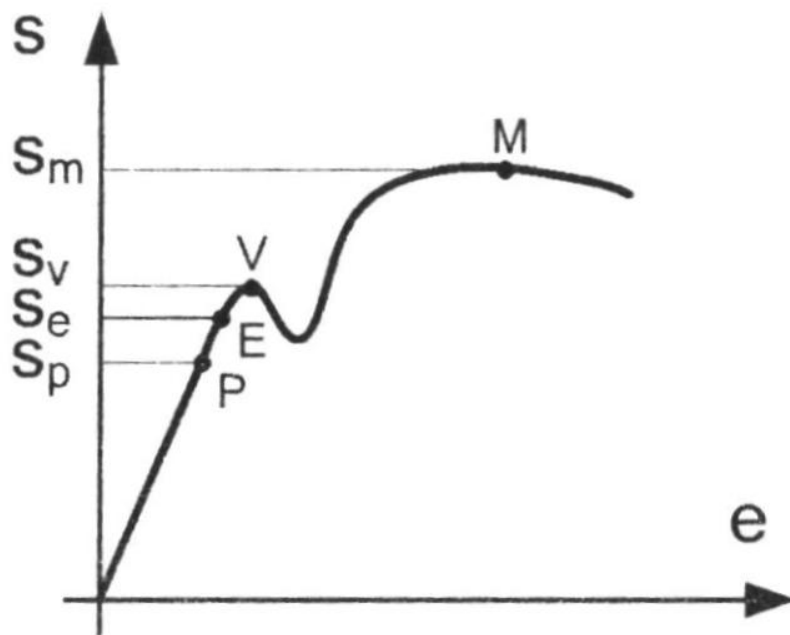
R_7, R_8 – otpornosti za podešavanje
mernog mosta,

Vezivanje u pun most

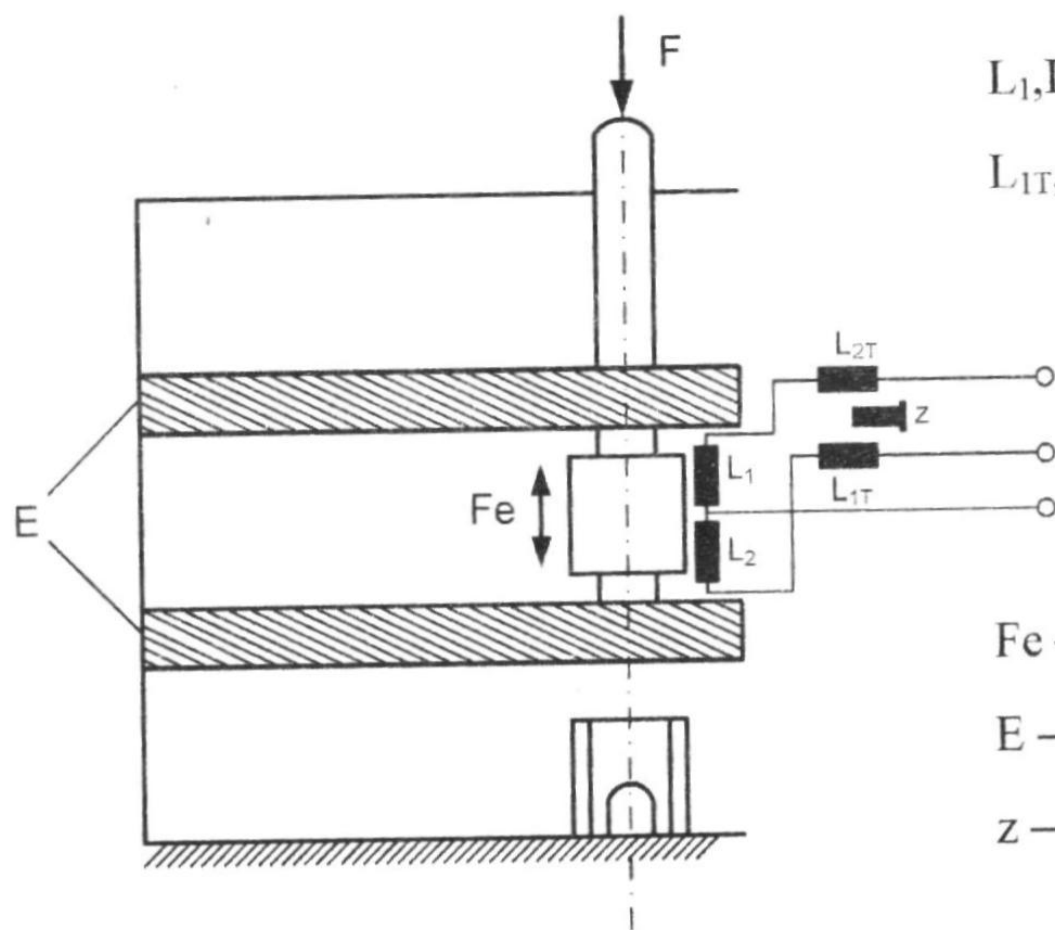
Davači sile sa mernim trakama



Davači sile sa mernim trakama



Davači sile induktivnim pretvaračima



L_1, L_2 – aktivni namotaji

L_{1T}, L_{2T} – namotaji za podešavanje
podešavanje osetljivosti

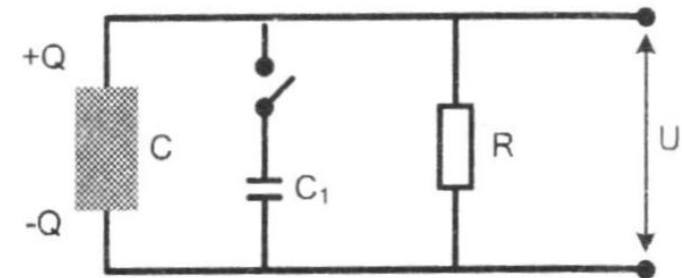
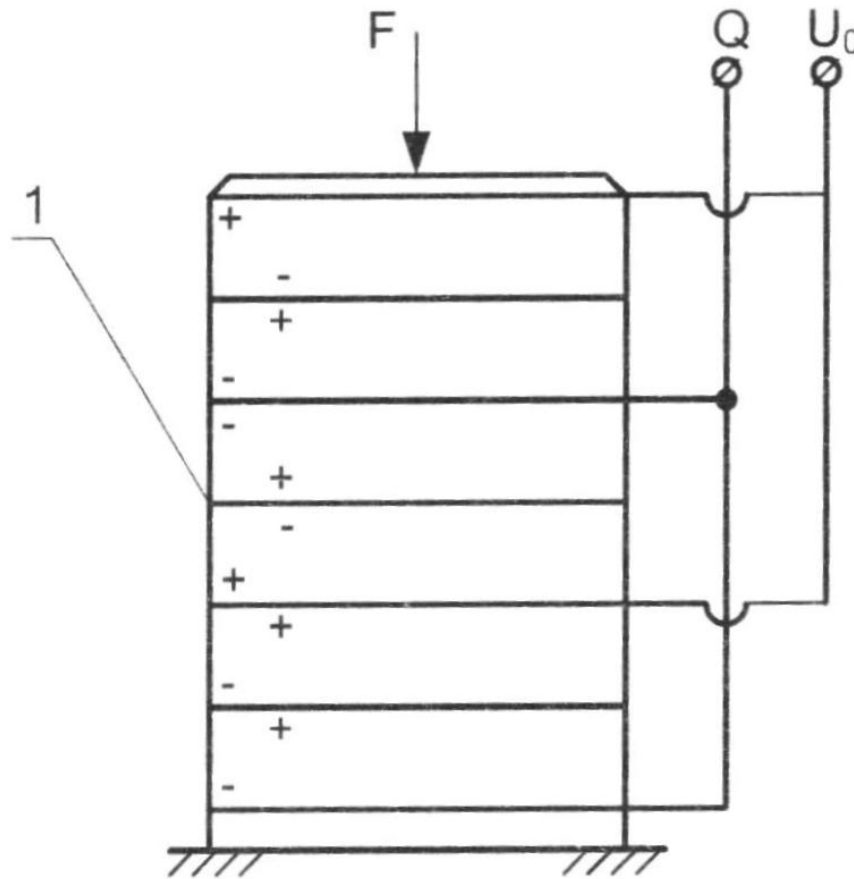
Fe – feritno jezgro

E – elastični element

z – zavrtnanj za podešavanje
osetljivosti

Šema induktivnog davača

Piezoelektrični davači sile

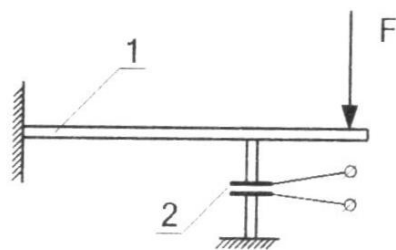


F – sila

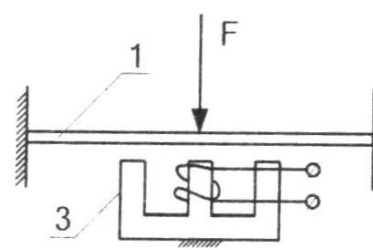
Q – punjenje

U_0 – električni napon na ulazu

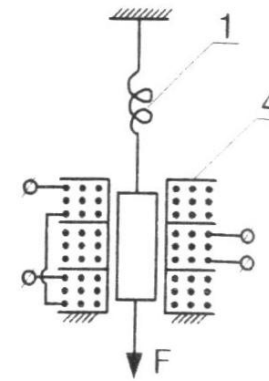
Davači sile sa promenljivom prividnom otpornošću



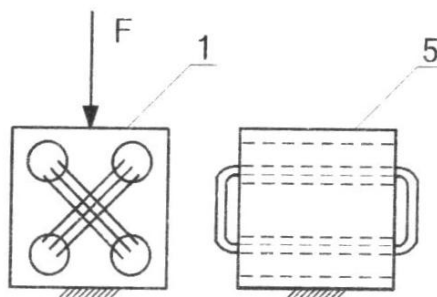
a)



b)



c)



d)

F – sila

1 – opruga ili pobudni element

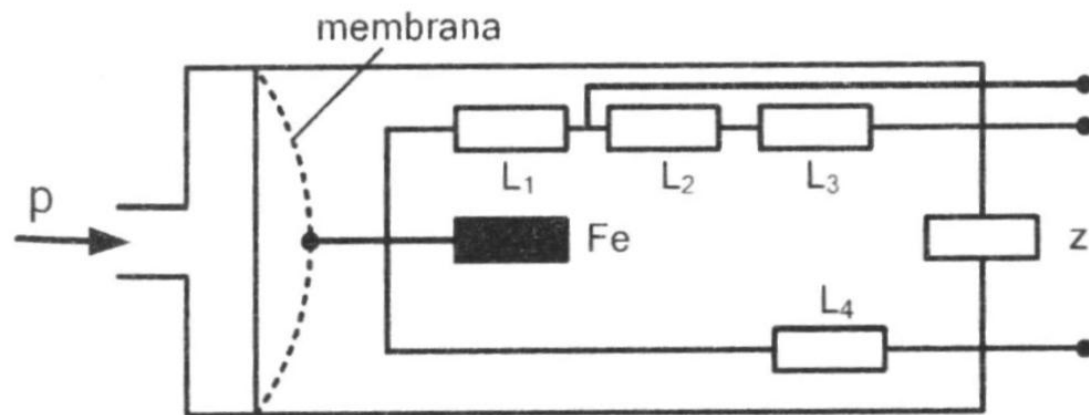
2 – kondenzator

3 – odnos magnetomotorne sile i
magnetnog fluksa



Merenje pritiska

Davači sile sa induktivnim pretvaračima



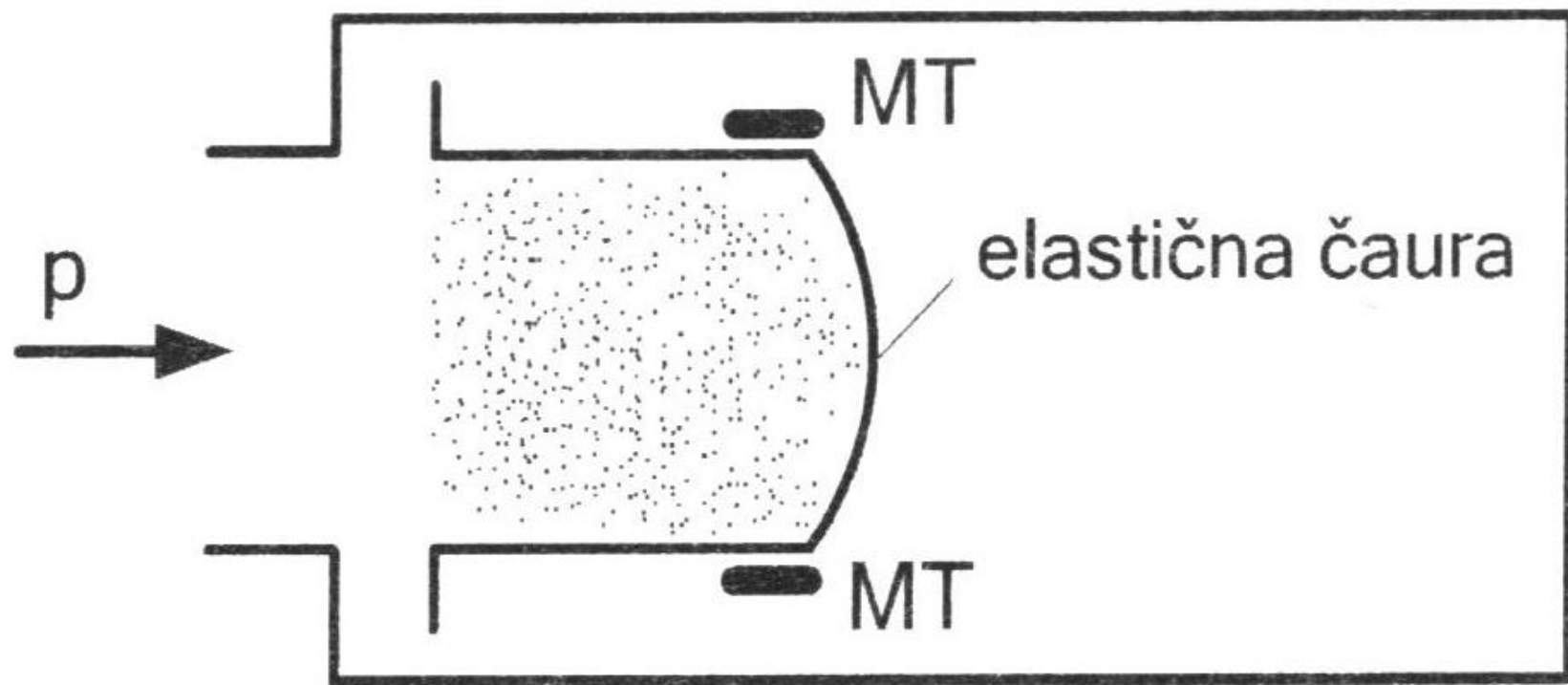
L_1, L_2 – aktivni namotaji

L_3, L_4 – namotaji za podešavanje
osetljivosti

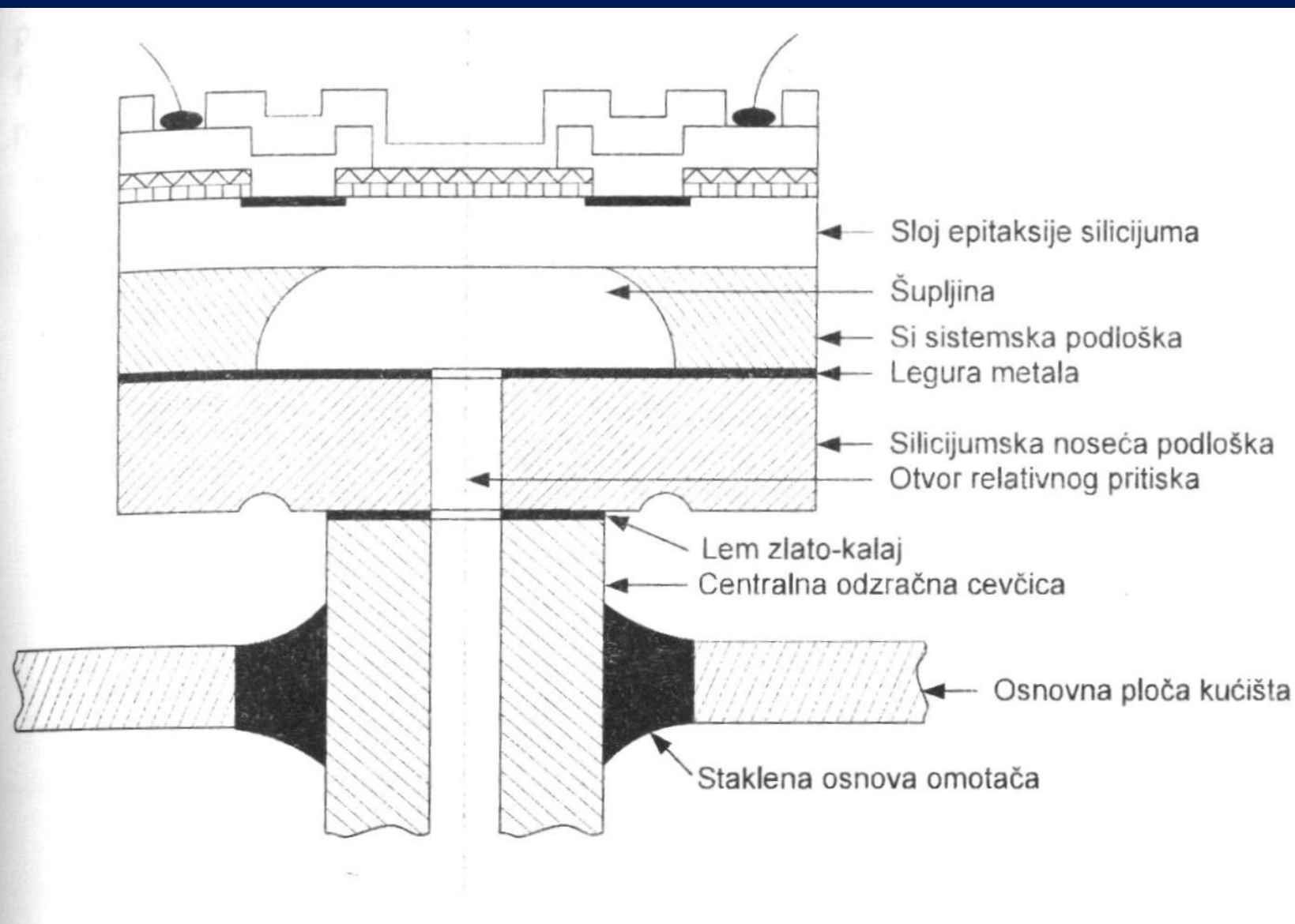
z – zavrtnaj

Fe – feritno jezgro

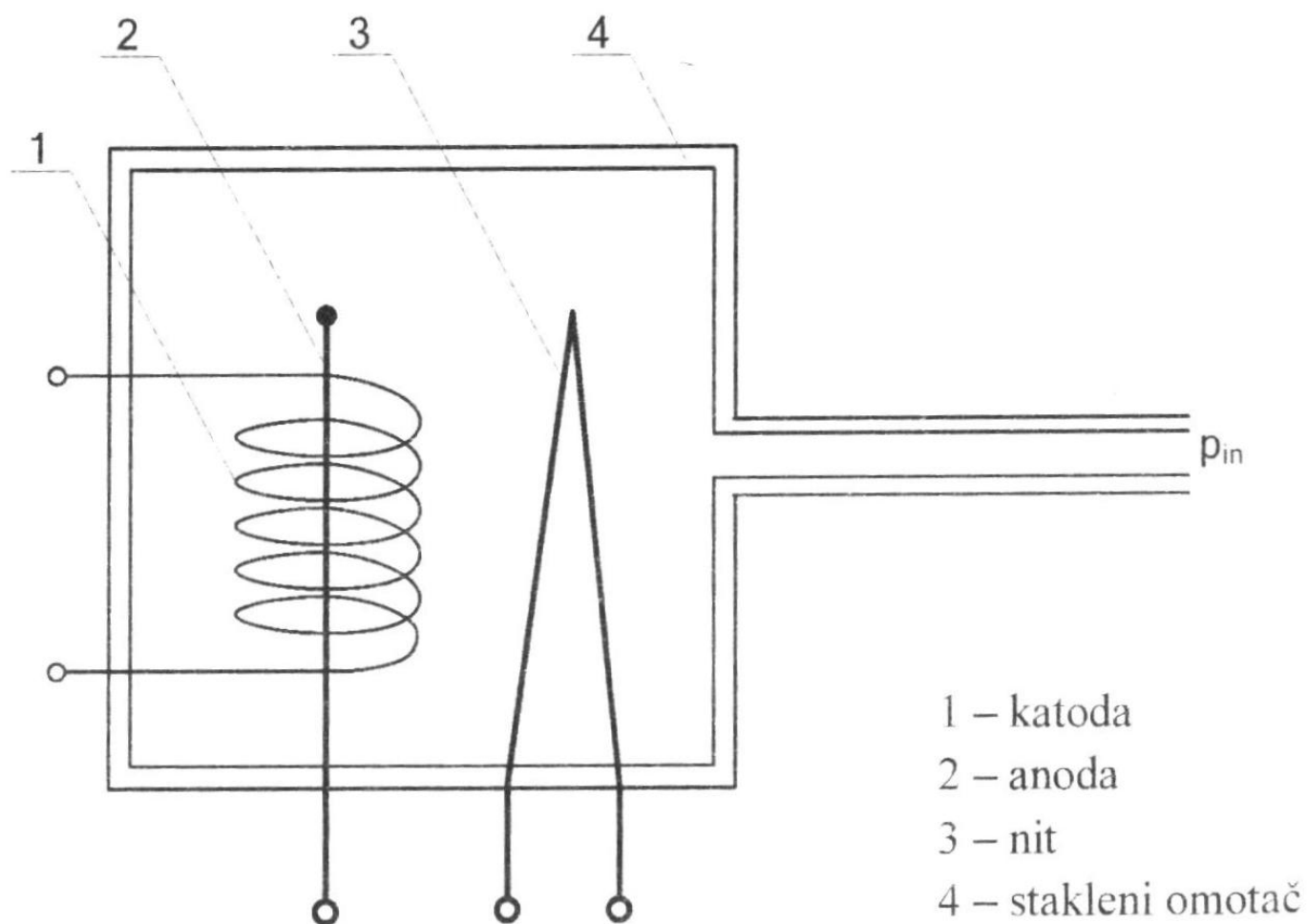
Davači pritiska sa otpornim mernim trakama



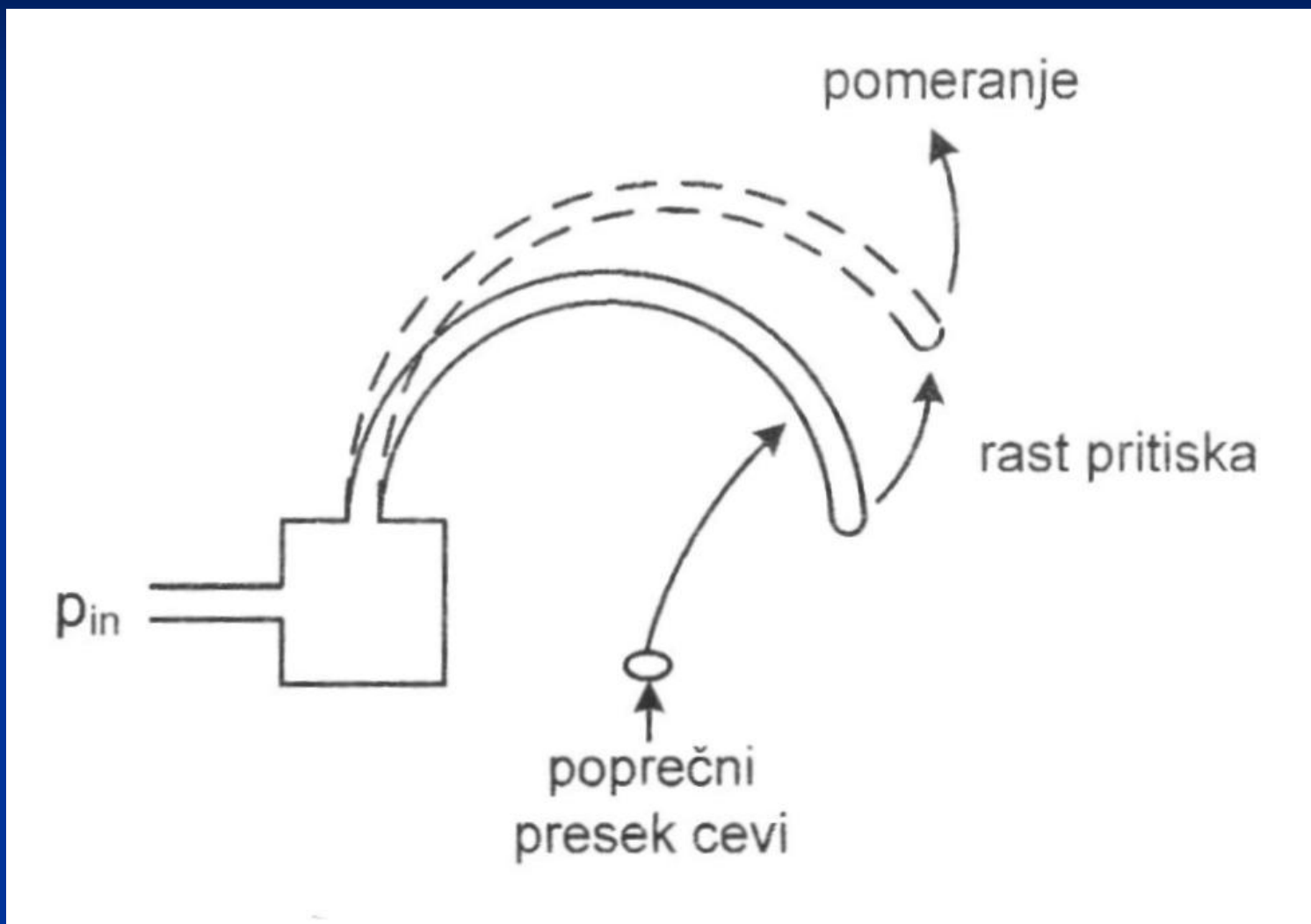
Piezootporni senzor pritiska



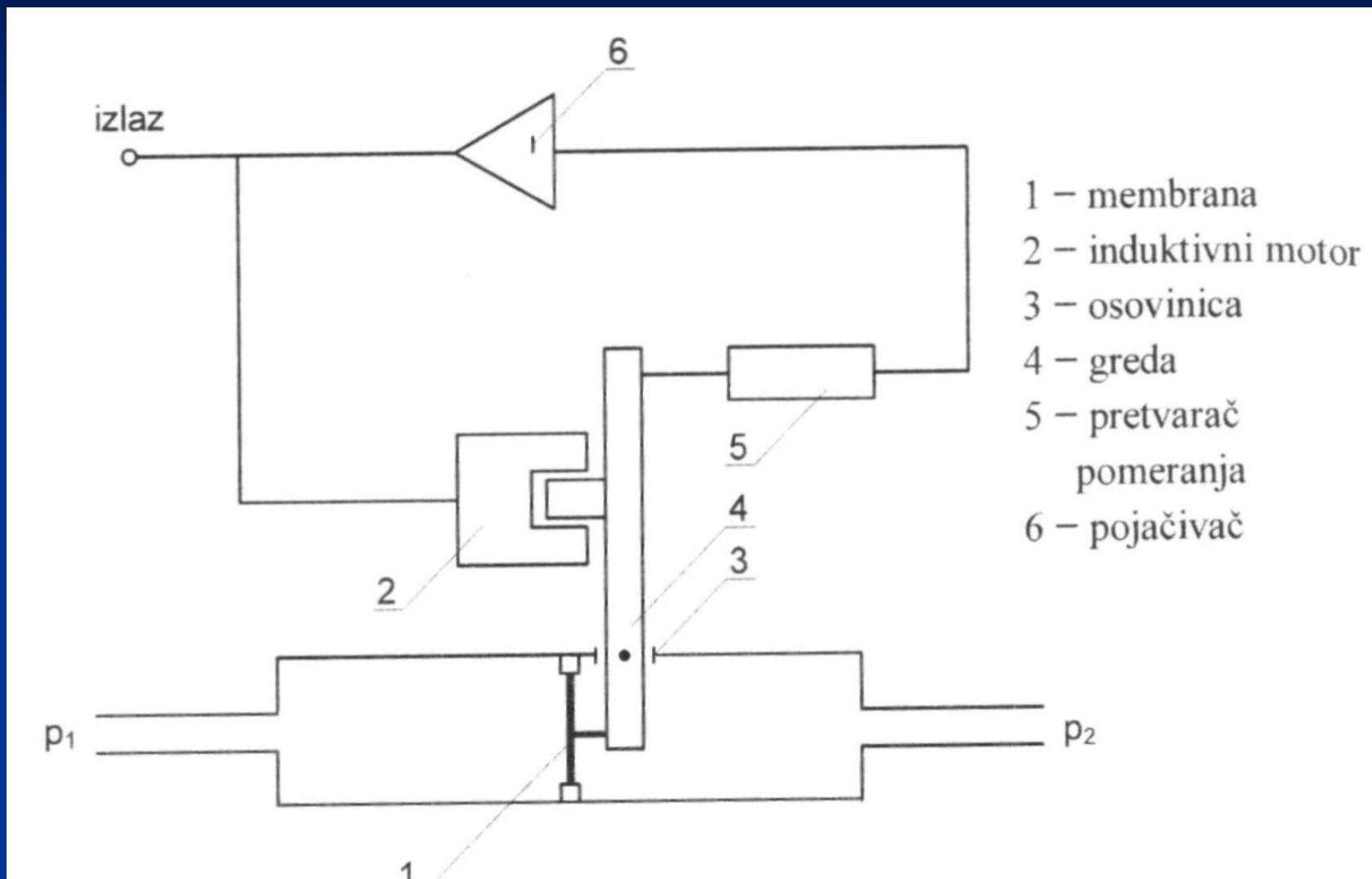
Senzori za merenje podpritiska



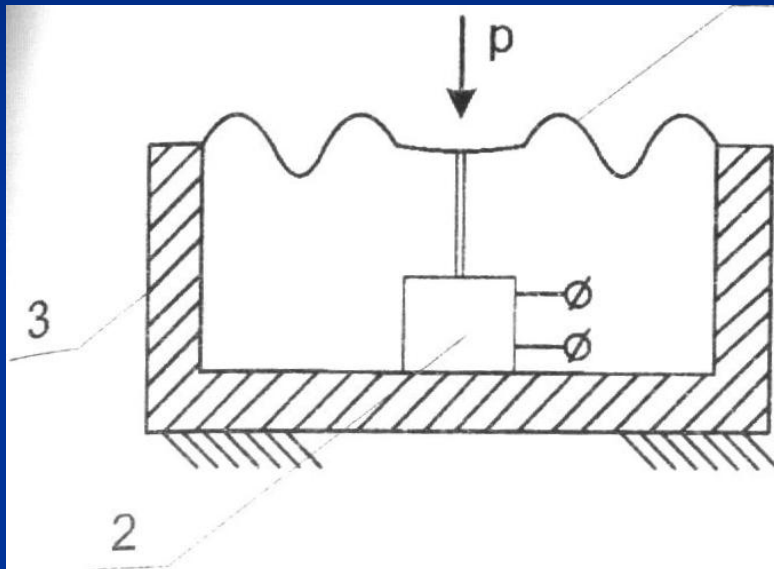
Senzori za merenje nadpritiska



Senzori za merenje nadpritiska

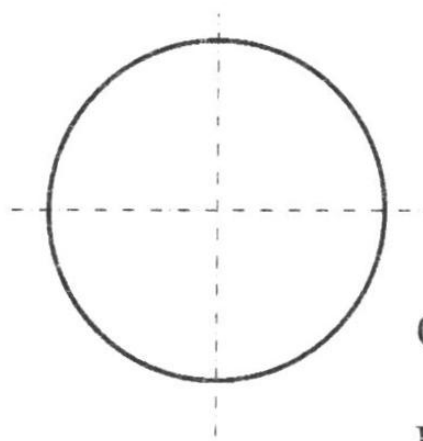
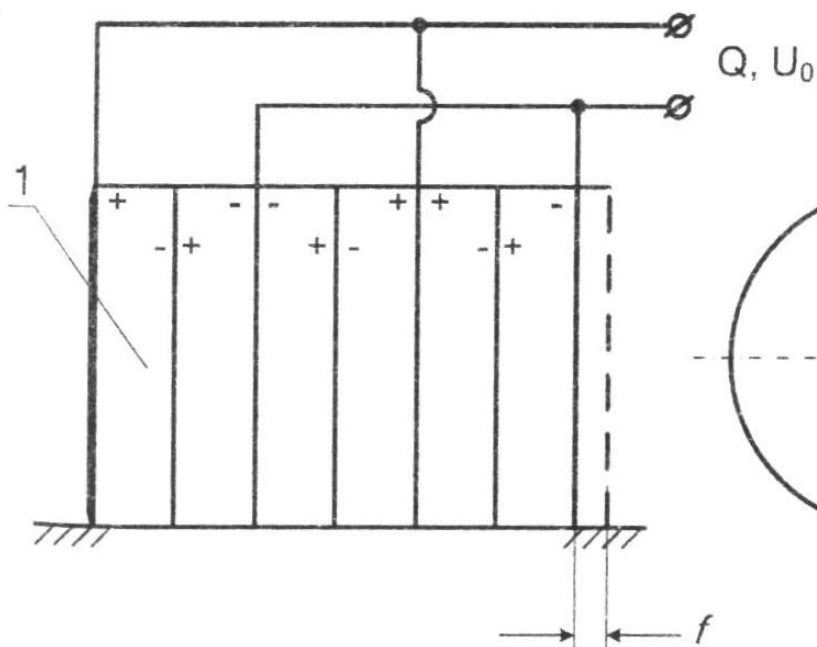


Senzori pritiska sa promenljivom impedansom



- 1 – elastični element osetljiv na pritisak (membrana)
- 2 – potencijometrijski, kapacitivni ili induktivni element
- 3 – kućište

Piezoelektrični davač pritiska



Q – punjenje

U_0 – električni napon na ulazu