INDUSTRIAL CONTROL SYSTEMS

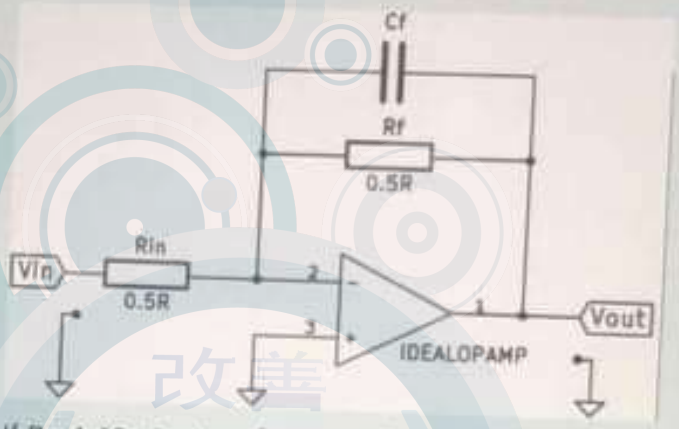
Time left 0:42:41

Question 8

Not yet answered

Marked out of 1.00

Flag question



If R=4x10^6 ohm (4Mohm) and Cf is 1 x10^-6 F (1 microF) then the transfer function is

- -1/(2s+1)
- -1/(5s+1)
- -1/(s+1)
- -1/(0.5s+1)
- -1/(0.3s+1)

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Question 13

Not yet answered

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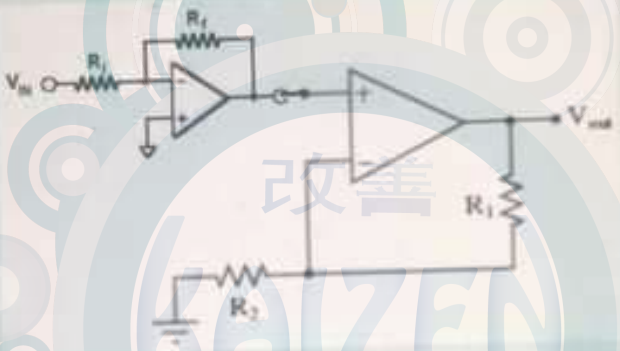
The gain (transfer function Vout/Vin) for the following system is ..... if R1=R2=Ri=Rf=2 ohm



- a. -2
- b. -1
- c. 1
- d. 2
- e. -3

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Finish

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INDUSTRIAL CONTROL SYSTEMS

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Question 14
Not yet answered
Marked out of 1.00
Flag question

The initial value (6s+3)/(s *(s^2+5s+2)* (s+3)) is

- 0.5
- 0.6
- 0.3
- 0.2
- 0

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INDUSTRIAL CONTROL SYSTEMS

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Question 16

Not yet answered

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Flag question

The system 5/(s^2+1) is classified as

- underdamped
- none
- overdamped
- criticaly damped
- undamed

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INDUSTRIAL CONTROL SYSTEMS

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Question 6

Not yet answered

Marked out of 1.00

Flag question

```
/*Turns on an LED on for one second, then off for one second,
repeatedly. This example code is in the public domain.*/

int led = 13;                                    1
void setup() {
pinMode(led, INPUT);                             2
}
void loop() {
digitalWrite(led, HIGH);                         3
delay(1000);                                     4
digitalWrite(led, LOW);                          5
delay(1000);
}
```

The wrong statement in the program is

- 1
- 2
- 3
- 4
- 5

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INDUSTRIAL CONTROL SYSTEMS

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Question 5

Not yet answered

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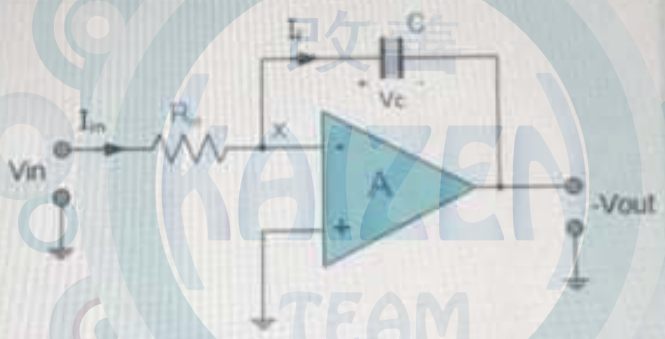

if Rin = 1 x10^6 ohm and C=1 x10^-6 farad ; then the transfer function Vou/vin is

- -1/2s
- -1
- none
- -1/s
- 1

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INDUSTRIAL CONTROL SYSTEMS

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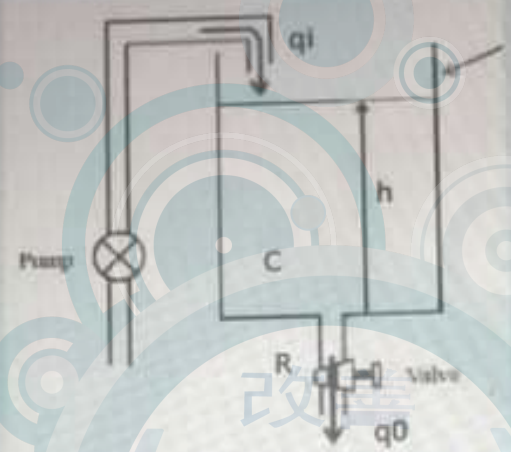
Question 14

Not yet answered

Marked out of 1.00

Flag question



qi = 0.05/s ;0.05 m^3/s a step increase; if the capacitance is 0.5 m^2 and the resistance R = 0.1 m*s/(m^3); The time the height is expected to reach settling (settling time)

- a. 0.3
- b. 0.15
- c. 0.1
- d. 0.05
- e. 0.2

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Question 17

Not yet answered

Marked out of 1.00

Flag question

The initial value for (s* (5s+1)) / ((s+3) * (s+5)^2)

- a. 5
- b. 1/15
- c. none
- d. 0

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INDUSTRIAL CONTROL SYSTEMS

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Question 7

Not yet answered

Marked out of 1.00

Flag question

R=5x10^5 ohm (0.5M ohm) and C= 1 x10^-6 F (1 micro F) then the time the system will settle

(settling time) after the switch is closed is

- 0.5
- 2
- 4
- 1
- 8

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1 4 7 10 13 16 19

Finish

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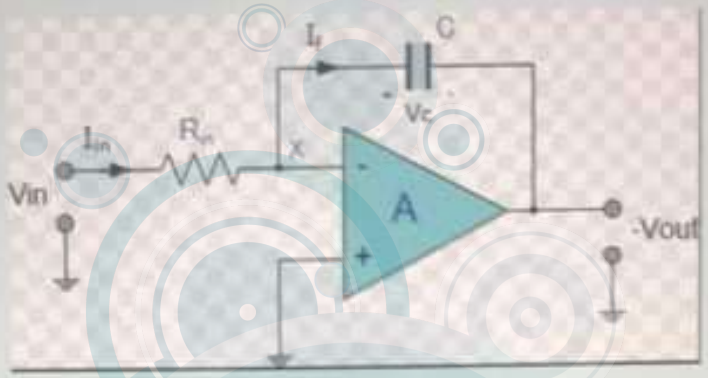
Question 9

Not yet answered

Marked out of 1.00

Flag question



Vout/ Vin ; the transfer function for the above system - if Rin= 2x10^6 Ohm (2M ohm) and C is 1 x10^-6 F (1 micro F) - is:

- 1/4s
- 1/3s
- 1/s
- 1/2s
- 1/(s+1)

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INDUSTRIAL CONTROL SYSTEMS

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Question 20

Not yet answered

Marked out of 1.00

Flag question

the equivalent transfer function

- 2/(s+2)(s+4)
- (1/s^2)+4s+2
- 2/(4s(s+2))
- 2/(s^2+2s+4)
- 2/(2s^2+4s+1)

Finish attempt ...

Quiz navigo

1 2 4 5 7 8 10 11 13 14 16 17 19 20

Finish

INDUSTRIAL CONTROL SYSTEMS

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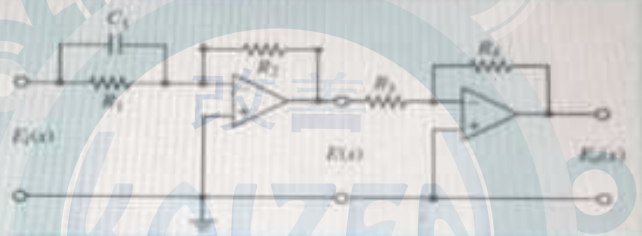
Question 10

Not yet answered

Marked out of 1.00

Flag question



R1=R2=R3 =1 x10^6 ohm and C1=1*10^-6 Farad and R4 = 0.5 x10^6ohm

Then Eo/Ei is

- 1/(0.5s+1)
- 1/(2s+1)
- 0.5/(s+1)
- 2/(0.5s+1)
- 0.5(s+1)

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Final exam

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Question 20

Not yet answered

Marked out of 1.00

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the steady state error to a ramp (1/s^2) input is

- 1/k
- 3/k
- 4/k
- 2/k
- 5/k

Finish attempt ...

Quiz navigat

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Question 11

Not yet answered

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Flag question

one of the equations describing the system is

- Fa=Mx"+b(y'-x')+k1y
- 0=b(y'-x') +K2y
- Fa=My"+b(x'-y')+k2y
- 0=b(x'-y')+K1y
- Fa=Mx"+b(x'-y')+k2y

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Question 5
Not yet answered
Marked out of 1.00
Flag question

The critically damped behaviour in the curve is

- a+b+c+d+e
- e
- a+b+c
- a+b+c+d
- f
- a+b
- e+f
- a

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Quiz navigo

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INDUSTRIAL CONTROL SYSTEMS

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Question 2

Not yet answered

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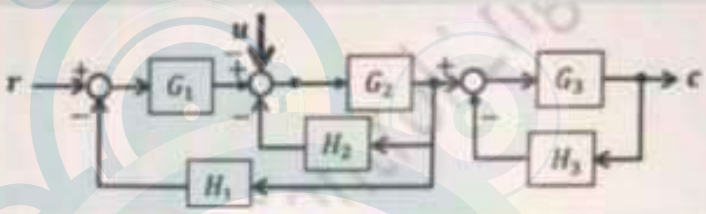
Flag question

The block diagram C/R for



- G1G2G3(1+G1G2H1)/(1+G1G2H1+G2H2+G3H3 +G3H3G1G2H1+G3H3G2H2)
- G2G3/(1+G1G2H1+G2H2+G3H3 +G3H3G1G2H1+G3H3G2H2)
- G1G2G3/(1+G1G2H1+G2H2+G3H3 +G3H3G1G2H1+G3H3G2H2)
- G1G2G3/(1+G1G2H1+G2H2+G3H3)
- G2G3/(1+G1G2H1+G2H2+G3H3)

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INDUSTRIAL CONTROL SYSTEMS

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Question 7

Not yet answered

Marked out of 1.00

Flag question

The time constant for the above system is

- 0.5
- 2
- 1
- none
- 4

Quiz navigation

1 2 3 4 5 6 7 8 10 11 13 14 16 17 19 20

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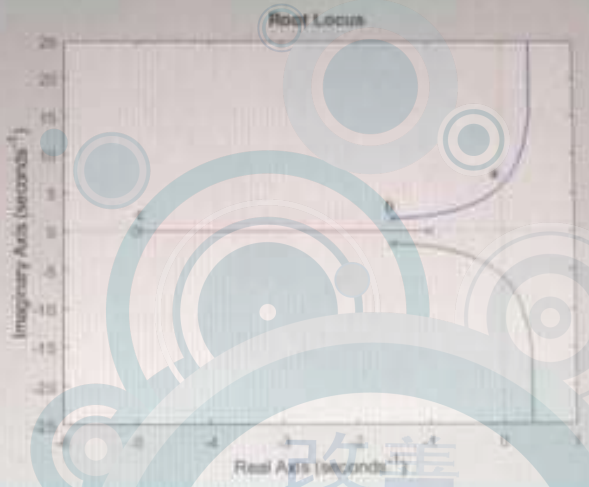
Question 2

Not yet answered

Marked out of 1.00

Flag question



>> rlocus(tf([1 5],conv([1 1],[1 3 5])))

The above root locus is the result of the matlab command;

one of the following statements is not true

- at point b, k=0
- at point c, k= inf
- the system has two asymptotes
- at point a, if we increase k further system becomes unstable
- at k=0 the system does not have overshoot

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INDUSTRIAL CONTROL SYSTEMS

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Question 15

Not yet answered

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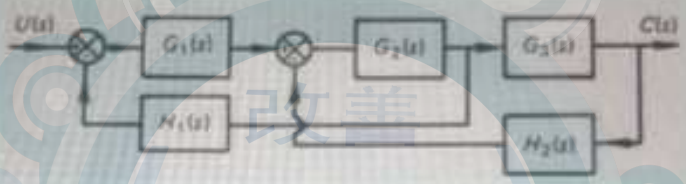

C/U is equal to

- (1+G1G2G3)/(1-G1G2H1+G2G3H2)
- G1G2G3/(1+G1G2H1*G2G3H2)
- G1G2G3/(1+G1G2H1+G2G3H2 + G1G2G3H1H2)
- G1G2G3/(1+G1G2H1+G2G3H2)
- (1+G1G2G3)/(1-G1G2H1-G2G3H2)

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INDUSTRIAL CONTROL SYSTEMS

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Question 1

Not yet answered

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Flag question

inverse laplace of 4/(s^2+6*s+13) is

- 2*sin(3*t)*exp(-2*t)
- 3*sin(2*t)*exp(-3*t)
- 3*sin(3*t)*exp(-3*t)
- 2*sin(2*t)*exp(-3*t)
- 4*sin(3*t)*exp(-2*t)

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