

## Chapter 6

### Equilibrium

#### Question 6.12:

A mixture of 1.57 mol of  $N_2$ , 1.92 mol of  $H_2$  and 8.13 mol of  $NH_3$  is introduced into a 20 L reaction vessel at 500 K. At this temperature, the equilibrium constant,  $K_c$  for the reaction  $N_2(g) + 3H_2(g) \rightleftharpoons 2NH_3(g)$  is  $1.7 \times 10^2$ . Is the reaction mixture at equilibrium? If not, what is the direction of the net reaction?

#### Answer 6.12:

The given reaction is:



The given concentration of various species is

$$[N_2] = \frac{1.57}{20} \text{ mol L}^{-1} \quad [H_2] = \frac{1.92}{20} \text{ mol L}^{-1}$$

$$\Rightarrow [NH_3] = \frac{8.13}{20} \text{ mol L}^{-1}$$

Now, reaction quotient  $Q_c$  is:

$$Q_c = \frac{[NH_3]^2}{[N_2][H_2]^3}$$

$$= \frac{\left(\frac{8.13}{20}\right)^2}{\left(\frac{1.57}{20}\right)\left(\frac{1.92}{20}\right)^3} = 2.4 \times 10^2$$

Since,  $Q_c \neq K_c$  the reaction mixture is not at equilibrium.

Again,  $Q_c > K_c$  Hence, the reaction will proceed in the reverse direction.

#### Question 6.13:

The equilibrium constant expression for a gas reaction is,

$$K_c = \frac{[NH_3]^4 [O_2]^5}{[NO]^4 [H_2O]^5}$$

Write the balanced chemical equation corresponding to this expression.

#### Answer 6.13:

The balanced chemical equation corresponding to the given expression can be written as:



# World Of Chemistry Chapter 6

**Wolfgang Palz**



## World Of Chemistry Chapter 6:

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*A World From Dust* Ben McFarland, 2016-03-07 A World From Dust describes how a set of chemical rules combined with the principles of evolution in order to create an environment in which life as we know it could unfold Beginning with simple mathematics these predictable rules led to the advent of the planet itself as well as cells organs and organelles ecosystems and increasingly complex life forms McFarland provides an accessible discussion of a geological history as well describing how the inorganic matter on Earth underwent chemical reactions with air and water allowing for life to emerge from the world s first rocks He traces the history of life all the way to modern neuroscience and shows how the bioelectric signals that make

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sudrajat dalam fathurrahman 2015 hlm 176 179 menyatakan bahwa model pembelajaran langsung memiliki kelebihan kelebihan sebagai berikut 1 dapat see more

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selain mempunyai kelebihan kelebihan pada setiap model pembelajaran akan ditemukan keterbatasan keterbatasan atau kelemahan yang ditemukan terutama see more

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menurut fathurrahman 2015 hlm 167 model pembelajaran langsung adalah suatu model yang dapat membentuk peserta didik untuk mempelajari serta menguasai keterampilan dasar dan mendapatkan sebuah informasi selangkah demi selangkah artinya model pembelajaran ini membutuhkan see more

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kekurangan tersebut dapat diatasi oleh guru dengan cara guru harus siap berpengetahuan percaya diri antusias dan terstruktur dalam ceramah see more

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web normally closed overload contacts anywhere from 1 to 3 nc overload contacts are shown between the starter and l2 in all line diagrams to avoid confusion it is common practice to draw one set of nc overload contacts and mark these contacts all overloads ols electric motor controls g rockis 2001

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web electrical symbols symbol identification explanation r indicating light the letter indicates the color the color red is indicated overload relay protects a motor should an overload condition develop capacitor represents a variety of capacitors a ammeter a letter is usually shown to designate the meter type a ammeter v voltmeter etc 50

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web sep 23 2020 motor overload protection a motor s full load amps is used to size the overload protection this fla is found on the equipment nameplate examples of overload devices include fuses and circuit breakers as well as motor starters with overload relay s or a solid state motor controller starter

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web nov 17 2022 southern stock getty images if you ve ever plugged in one too many holiday lights switched on a vacuum or cranked up a space heater only to have the lights or appliance suddenly shut off you ve created an electrical circuit overload the shutdown was triggered by the circuit s breaker or fuses in your home s service panel

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web mar 16 2022 at the same time they protect these motors from damage due to blocked starting overload short circuit and single phase failure in three phase networks they have a thermal trigger to protect the motor winding overload protection and an electromagnetic trigger short circuit protection

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web mar 25 2023 an overload relay is an electrical device used to protect an electric motor from overheating there must be adequate motor safety the electric motor can be operated safely with the help of an overload relay fuse or circuit breaker but this relay provides protection to the motor

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web fuses and electrical protection symbols fuses are devices containing a small piece of special wire that melts when the intensity of the current flowing through it for a certain period of time exceeds a set value thus protecting the rest of the electrical circuit overloads

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web apr 11 2023 they use thermal action and a bi metallic strip to protect from overload conditions and a magnetic sensing coil to protect against overcurrent situations the main advantage that circuit breakers have over fuses is that

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overload relay can be used with the combination of contactors overload protection is necessary to increase the life of the motor next must read articles the most used 3 basic motor starter with its plc program

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web overload protection is installed in the main control circuit or power line of motor to protect from damage due to mechanical malfunction overload conditions when it is running the effect of an overload is an excessive rise in temperature in the motor windings due to current higher than full load

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web the wiring diagram of an overload relay is shown below and the connections of an overload relay symbol may seem like two opposite question marks otherwise like the s symbol the overload relay working function is discussed below

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web overload protection the current flows in the circuit based on the demand of loads if the amount of current increases and exceeds the rating of the electrical equipment then the system is overloaded the wires or cables may not withstand the higher current the wires get hot and even melt the insulation this leads to fire hazards

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web a fuse is used for protection of any electrical device from overcurrent it has a small wire or metal which melts due to large current opens the circuit blocking the flow of faulty currents the iec ieee ansi provide different representation systems

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web an overload relay olr protects an electric motor against overloads and phase failures thermal and electronic olr definition operation and connections

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web sep 26 2020 q1 is a manual motor started with overcurrent protection my question is what is the meaning of the f like symbol does it represent an edge trigger what is the square after the f like symbol does it represent the coil of the contactor what is the symbol does it represent overcurrent protection

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web apr 15 2022 overload protection circuit for voltage regulator ic in the circuit ic3 7812 as the 12 volts regulator will supply voltage to load through the contact c nc of the relay ry1 in normal the point a will has state is 1 cause the output of ic1 1 is 0 so no current to trigger gate of scr1 thus the ry1 not works

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web overload describes a moderate and gradual rise in the value of current over a relatively long period of time it is caused by excessive amounts of current drawn by a motor which may be as high as six times the rated current this is caused by too much load on a motor systems are protected by

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web 1 two students can form a team from each college 2 the event will test their knowledge on business analytical and problem solving skills for given situation in business 3

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