

CHEMISTRY Terminology The ABCs of chemistry

A: Symbol for atomic mass marrier

absolute zero: Lowest temperature; 0 Kelvin

Act Symbol for the element actinium, Z = 89.

accuracy: The closeness of measurement to true value.

acetate anion: CallaDy, charge -1

postic acid: C-01.O-

acetome: Directled ketome: organic solvent.

acid-base indicator: A chemical that changes color lift the pHI champes

acid-base titration: A method for determining acid or base concentrations.

noid definition: See Archenius acid, Brensted-

Lower sold, Lewis acid.

acid ionization constant (K.): Equilibrium constant for acid dissociation.

acidic solution; pit Buckeyer 1

actinide: Element switch 2: ~ 90 or allower: radiosective.

activation energy

(IE.)): A prescess is energy.

Resident

Е.

Activation Energy

Product

adhesion: Attraction of unlike molecules or

Age: Symbol for the element silver, Z = 47

Alt: Symbol for the element aluminum, Z = 13.

alcohol: Organic compound with -OH group; BOH aldehyde: Carboxyl group bonded to hydrogen and an organic group

alkali metal family: Lithium, sodium, potosium, nubidium, opsium, and francium; column #1

alkaline earth metal family: Beryllium, magnesium, calcium, strontium, barium, and radium; column #2.

allkame: Hydrocurbon; all C-C single bonds

alkene: Hydrocarbon; I or more C+C double bonds. alloyse: Hydrocarbon, I ar more CFC triple bonds.

allotropes: Two or more forms of an element

alticy: Solution of 2 or more metals.

alpha (a): Greek letter that denotes radioactive particle and various scientific variables.

alpha particle: Helium micleus; charge +2

Amc Sverbol for the element sovericium, Z = 95

amalgame Alloy of mercury with other inetal

amine: Organic base; RRRN; modified amountain

amino acid: Compound with organic acid and organic

base property; forms proteins and peptides

ammonia: Nill, base

ammonium cation: NIL, charge +1.

ammonium hydroxide: NHLOH

amphoteric oxide: Exhibits both sold and basic

properties

named Assessing process until \$500 masses of C-12.

arrion; ton with a regutive charge

anode: Electrole that supports existation

antibonding MO: MO is less stable than separate AOs.

AO: Abbreviation for atomic orbital

augt Asparents "dissolved in water"

Art: Symbol for the element argon, Z = 18.

aromatic: Organic compound with a benome ring

Arrhenius acid: Produces hydronium ion in water

Arrhenius basec Yields hydroxide ion in water

Arrhenius equation for rate constant (k):

k = Ac-Eart

R. - activation energy

arsenide anion: Av., charge «It

As: Symbol for the element assenic, Z = 33.

All: Symbol for the element astation, Z = 85

aten: Symbol for pressure in "atmospheres"

atom: Fundamental unit of all matter

atomic mass number (A): Total number of protons and neutrons.

atomic number (Z): Number of protom in the nucleus.

atomic orbital: Wave motion of electrons in atoms atomic radius: Impirical measure of atom size

atomic weight: Weighted average of natural isotopes of an observed

Auc Symbol for the element gold, Z = 79

Aufbau principle: Guides the filling of electronic and solve the self that educations to

Avogadro's law; Volume is proportional to gas moles at fixed pressure and temperature

Avogadro's number: N_s = 6.022 × 10th met⁻¹

B: Symbol for the element boron, Z = 5

Ba: Symbol for the element barium, Z = 56

balanced equation: Each side of the equation has the same number of atoms of each element and charge

balanced redox: Electron loss = electron gain

barium cation: Bar, charge +2.

base definition: Sor Arrhenius base, Breested-

Lovery base, Lowis base

base ionization constant (K.): Liquilibrium constant for home dissociation.

basic solution; plif over 7

battery: Source of electrical power; galvanic cell-

Bo: Sambol for the element beryllium, Z = 4benzene: C.H.: ereanic solvent. Benzene

aromatic ring of 6 carbon atoms beryllium eation: No., charge

both (80: Greek letter that denotes radioactive particle and a number of scientific variables

beta particle: Enemetic electron from the mucleon; charge -1.

Bh: Symbol for the element bohrium, Z = 107

Bit: Symbol for the element biomath, Z = 83blearbonate anion: HCOs, charge -1

bimolecular oxygen: O:

binary compound: Fermed from 2 elements

bisulfate anion: HSO/, charge -1

Bk: Symbol for the element berkelium, Z = 97

bleach: Chemical that is a strong exidizing agent

boiling: Liquid -- gas at the boiling point

boiling point elevation: A solution has a higher

bodling point than a paint solvent

boiling point (T_s): Liquid-gas equilibrium, P = 1 atm

boiting point of water; 100°C

bond energy: Energy held by a chemical bond

bond length: Distance between 2 atoms in a bond

bond order for Lewis model: it of bonds divided by If of bounded atomics

bond order for MO treatment: # of filled bonding MOs minus # of filled antibonding MOs

bonding electrons: Form chanical bonds in a

bonding MO: MO is more stable than AOs

Biography barry PW

constant for gas, fixed T and term

By: Sumbot for the element becoming, 2 = 35

bromide anion: fit.

charge -1 Bronsted-Lowery acid:

Proton donor Bronsted-Lowry base: Proton acceptor

buffer: Composed of weak acid and weak base; serves

to keep pHI constant

cc Symbol for penti-, the SI porfex for V_{mi} or 10.7

Biowte's Law

200 400 400 800

Carboxylie Acid

R-C-OH

et: Symbol for the speed of light.

*C: Celsius temperature scale

C: Sconbol for the element curbon, Z = 6.

Culti/Ost Acettic acid.

Cat Symbol for the element calcium, Z = 20

calcium cation: Ca*, charge +2

exclusions theoriday Culti-

calcium hydroxide: CarOffle catories linglish unit of heat energy

calorimetry: Study of the release or absorption of heat.

carbide anion; C*, charge -4

carbohydrate: Organic compound; carbon bonded to neveral -OH groups (sugar and stanch).

carbon dioxide: COcarbon monoxide: CO

carbonate anion: COV, charge -2.

carbonic acid: IE-CO.

carbonyl group: CO, ligand complex carboxyl group; >CO banded to 2 groups carboxyllic acid: Organic acid: R-COOH

catalyst: Accelerates a reaction but is not consumed in the reaction; lowers the activation

COUNTY OF

cathode: Electrode that supports reduction.

eathers less with a positive charge

Cd: Symbol for the element cadmium, Z = 48.

Thermal Chemistry Study Guide

Neil E. Schore

Thermal Chemistry Study Guide:

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3d printing and bio based materials in global health a - Jul 02 2022

web jun 26 2017 3d printing and bio based materials in global health an interventional approach to the global burden of surgical disease in low and middle income countries

alternating current measurement using pic microcontroller - Dec 07 2022

web v ir i v r as you can see in this circuit diagram we use an r1 load resistor to convert current into voltage in this circuit a voltage divider is used but we can also use an operational amplifier to step down the voltage across the load resistor how to measure the secondary side current of ct

adc how to read high voltages on microcontroller electrical - Jan 08 2023

web you mean with a microcontroller the impedance note about analog sources probably means that if the sources are higher than 2 5k the input on the pic will start to load them down you usually want a source impedance to be at least ten times smaller than the load impedance so that it is not disturbed by the load impedance

pic voltage measurement electrical engineering stack exchange - Mar 10 2023

web pic voltage measurement ask question asked 13 years 9 months ago modified 13 years 9 months ago viewed 3k times 10 i am running a battery powered device and would like my microcontroller pic to report on the supply voltage this is so i can determine how many batteries is used in the supply and also the state of charge of the battery pack

true dc rms meter using core independent peripherals on 8 bit pic - Dec 27 2021

web this technical brief demonstrates a solution for measuring the true dc rms of a periodic dc waveform using the core independent peripherals cips that are found on the pic18 microcontrollers the project uses less code and cpu cycles since the averaging operation frequency calibration and data transfer are implemented using the cips pic based digital voltmeter dvm embedded lab - Feb 26 2022

web the pic micro reads the input voltage through one of the 8 analog channels and convert it to a 10 bit digital number using the internal adc doing some math with adc conversion you will see later this number can be converted to the actual measured voltage the voltage is displayed in an hd44780 based character lcd

voltmeter and ammeter using pic microcontroller electrosome - Jul 02 2022

web may 20 2012 adc module of pic microcontroller converts the signals on its analog pin to 10 bit binary data and it has software selectable high and low voltage reference input to some combination of vdd vss ra2 and ra3 the analog input to pic is limited to vss and vdd voltages 0 5v of pic this circuit is designed to measure 0 to 30v ac voltage measurement using pic16f877a microcontroller - Jul 14 2023

web jun 27 2017 so we see that there are some parameters of ac voltage such as peak voltage rms voltage line frequency wave shape etc in this project we will not measure the wave shape we will measure the peak voltage rms voltage and line frequency to make the project easy and understandable

ac voltage measurement using pic18f46k22 microcontroller - Apr 11 2023

web jul 12 2022 this pic mcu project shows how to measure ac voltage up to 500v using pic18f46k22 8 bit microcontroller the rms effective value of the voltage under measure is sent to pc which can be printed on any serial monitor software and also displayed on 16 2 lcd screen

ac power measurement meter using pic microcontroller elprocus - Jun 01 2022

web the ac voltage measurement using a pic microcontroller can be done using a difference amplifier or potential transformer the difference amplifier or potential transformer is used to step down the voltage and then by using an analog to digital converter or rectifier the voltage reading is displayed on the lcd display

three phase voltage measurement using pic microcontroller - Jan 28 2022

web oct 6 2018 the ac voltage measurement using pic microcontroller can be done using a difference amplifier or potential transformer the difference amplifier or potential transformer is used to step down the voltage and then by using analog to

digital converter or rectifier the voltage reading is displayed on lcd display digital voltmeter using 7 segment display and pic microcontroller - Feb 09 2023

web digital voltmeter with 7 segment display circuit diagram a picture below shows the circuit diagram of dc voltmeter with four digit seven segment display and voltage divider circuits interfacing with pic16f877a microcontroller but you can use any other pic microcontroller also

measure pic s own vdd in voltage with adc - Mar 30 2022

web mar 19 2015 i ve just made and successfully tested code to measure the voltage on an4 analog pin now i want to try something else not quite sure if it s theoretically possible my test board has a pic processor with vdd avvd connected to a supply ranging from 0 if the battery is empty disconnected to 4 2 full battery

ac voltage measurement using pic microcontroller youtube - Sep 04 2022

web ac voltage measurement using pic microcontroller in this video lecture you will learn about ac voltmeter design circuit using current transformer and difference amplifier how to use show

ac voltage measurement using pic microcontroller two methods - Aug 15 2023

web jul 30 2023 the diagram below shows the simulation results of an ac voltage measurement project the lcd displays a reading of 220 volts ac which is measured using a microcontroller and the necessary components connected to it including a potential transformer how to measure ac voltage using pic microcontroller

microcontroller how do i measure a negative voltage with a adc - Nov 06 2022

web i am working with a pic micro controller with inbuilt 10bit adc and want to measure a voltage in the range of 1 to 3volts i thought of using an op amp in the inverting mode to make voltage positive and then feed it to the adc of the microcontroller however here i would have to power the opamp with a negative power supply right

voltage measurement with a pic microcontroller michigan state - Jun 13 2023

web the pic18f4520 is a 40pin microcontroller with numerous functions and applications one of its many functions is analog to digital conversion through this the pic is capable of reading an analog voltage and turning it into a digital readout that can be used in a program the circuitry and code required to create a basic voltage sensor is minimal

how to measure battery voltage from a microcontroller - Aug 03 2022

web apr 25 2016 my answer would be get a shunt type reference for a voltage that is lower than the battery range of interest let s assume a 5v battery and a tl431 or the like as 2 5v reference now measure the tl431 voltage using the battery as reference assume a 10 bit a d most common that reads n now you know that n battery 1023 2 5

three phase voltage measurement using pic microcontroller - Apr 30 2022

web the circuit diagram of three phase voltage measurement system is given below as you can see in the circuit diagram we

are using three phase generator and the voltage of each phase is measuring with the same circuit phase one phase two and phase thee measurement circuit are the same

how to measure mains ac voltage with an adc from a microcontroller - Oct 05 2022

web jul 6 2016 i want to measure the mains voltage 230v 50hz using an adc channel from a microcontroller this is my current approach below i have two schematics that add two voltages one direct one alternating added to that the both the ac and dc signals are going through voltage divider but that isn t important

digital voltmeter using pic microcontroller project and circuit - May 12 2023

web digital voltmeter using pic microcontroller in this project a digital voltmeter using pic microcontroller is designed digital voltmeter using a pic can read the voltage from 0 40 volt this voltmeter can read only dc voltage digital ac voltmeter can also be designed using microcontrollers