

CHEMISTRY NOTES CHAPTER 5

ATOMIC STRUCTURE AND THE

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What are the basic notes of the atomic structure? Atoms consist of three basic particles: protons, electrons, and neutrons. The nucleus (center) of the atom contains the protons (positively charged) and the neutrons (no charge). The outermost regions of the atom are called electron shells and contain the electrons (negatively charged).

Is atomic structure a tough chapter? Atomic structure is an easy chapter with fairly simple concepts which students can grasp easily which makes it a student favourite, they can easily manage their time with these questions.

Is an atom identified as platinum 195? An atom is identified as platinum-195. a. what does the number represent? The value of 195 represents the mass number of the isotope for platinum.

What is atomic structure chapter of chemistry? At present about 35 different subatomic particles are known but the three particles namely electron, proton and neutron are regarded as the fundamental particles. We know that an atom is electrically neutral, if it contains negatively charged electrons it must also contain some positively charged particles.

What are the 3 rules of atomic structure? That is, we follow the three important rules: Aufbau Principle, Pauli-exclusion Principle, and Hund's Rule. The electronic configuration of cations is assigned by removing electrons first in the outermost p orbital, followed by the s orbital and finally the d orbitals (if any more electrons need to be removed).

What is an atomic structure in chemistry? Atoms consist of an extremely small, positively charged nucleus surrounded by a cloud of negatively charged electrons. Although typically the nucleus is less than one ten-thousandth the size of the atom, the nucleus contains more than 99.9% of the mass of the atom.

What is the hardest chapter in chemistry? Ans. The toughest chapter in Chemistry is Equilibrium as this chapter involves complex concepts like the equilibrium constant, Le Chatelier's principle, and factors affecting equilibrium, etc.

Which is the hardest chapter in science? The toughest chapters, such as Chemical Reactions and Equations, Electricity, and Light–Reflection and Refraction, require a deep understanding of concepts like chemical reactions, electrical circuits, and optics principles. Get the Toughest and Easiest Chapters in CBSE Class 10 Science from the below table.

What is the hardest structure in chemistry? Currently, diamond is regarded to be the hardest known material in the world. But by considering large compressive pressures under indenters, scientists have calculated that a material called wurtzite boron nitride (w-BN) has a greater indentation strength than diamond.

Is platinum a solid or a gas? Platinum is a chemical element with symbol Pt and atomic number 78. Classified as a transition metal, Platinum is a solid at room temperature.

Which metal element has 78 electrons when it has a +1 charge? Platinum atoms have 78 electrons and the shell structure is 2.8. 18.32.

What element has 50 protons and 69 neutrons?

Are neutrons positive or negative? Neutrons have a neutral electric charge (neither negative nor positive) and have slightly more mass than positively charged protons.

Are electrons positive or negative? Electrons have a negative charge. The charge on the proton and electron are exactly the same size but opposite. Neutrons have no charge. Since opposite charges attract, protons and electrons attract each other.

What are the 7 atomic models in order?

What is the basic theory of atomic structure? The general tenets of this theory were as follows: All matter is composed of extremely small particles called atoms. Atoms of a given element are identical in size, mass, and other properties. Atoms of different elements differ in size, mass, and other properties.

What are atomic notes? Atomic notes are all the rage in personal knowledge management circles. The idea is that each note should capture one singular thought or concept.

What are the key concepts atomic structure? The structure of the Atom The radius of atom is about 1×10^{-10} m (this is also known as 0.1 nanometres). The central part of the atom is known as the nucleus. It is only 1×10^{-14} m across, which is 10,000 times smaller than the total atom. An atom is made up of three subatomic particles: protons, electrons and neutrons.

What are the 4 atomic structures? Atomic Structure - Electrons, Protons, Neutrons and Atomic Models.

What Bible version is NKJV? In short, it's the King James Bible, but new. The New King James Version (NKJV) Bible takes as its foundation the classic King James Bible from 1611 but gives it a more modern feel. The goal of the NKJV is simple: to preserve the beauty of the KJV whilst making it accessible to modern readers.

Is the NKJV Bible accurate? The NKJV is described by Thomas Nelson as being "scrupulously faithful to the original, yet truly updated to enhance its clarity and readability."

What religion is the NKJV Bible? The NKJV is an update of the King James Bible, which was commissioned as a Protestant Bible by a Protestant monarch.

Is the NKJV a Catholic Bible? Answer: No. The King James Version of the Bible, also known as the Authorized Version, is a Protestant translation of Scripture into English that was commissioned and promulgated by James I of England for use in the Anglican church.

Which Bible version is best?

What is the difference between NKJV and KJV Bible? The NKJV, published in 1982, is unique in that it is not a translation of the older manuscripts, it is an update on the early English of the KJV. The work of updating was not done lightly and took time and a great deal of effort on the part of 130 scholars.

Which Bible is the original Bible? The oldest extant Bible is Codex Sinaiticus, which has been made in the 3rd century. It is a handwritten Greek codex, with the Old Testament being the Septuaginta canon, and the New Testament containing the same books as today.

Do Catholics use the King James Bible? Do Catholics use the King James Bible? Protestant Christians translated the King James Bible for Protestant Christians. Catholics do not use the King James Bible in Mass, though there are no restrictions on them reading that version of the Bible. The early Catholic translation is called the Douay-Rheims translation.

What grade level is the NKJV? New King James Version (NKJV): 7th grade. New Living Translation (NLT): 6th grade. God's Word (GW): 5th grade.

Which Bible do Catholics use? There are many contemporary translations of the Bible into English but only a few are officially approved by the Catholic Church to be free from inaccuracy and excessive bias. Among these are the: Revised Standard Version. New Revised Standard Version.

Does NKJV have missing verses? The NKJV does not omit dozens of verses, hundreds of phrases and words as is done in these other versions. It is not a loose translation or a paraphrase.

Which Christians use the King James Bible? Five large denominations of Christianity — Baptist, Episcopalian, Presbyterian, Latter-day Saints and Pentecostal — use the KJV today.

What kind of Bible is NKJV? The NKJV builds upon the translation foundation of the original King James Version yet is updated for a contemporary reader without sacrificing the authority or clarity of God's Word.

Which Bible do Christians use? The most widely used of any modern Bible version, the New International Version marries meaning-for-meaning principles with word-for-word renderings. It is an all-round translation, suitable for a wide range of purposes, and has proven especially popular amongst evangelicals.

What Bible does the Vatican use? The New Revised Standard Version, Catholic Edition (NRSV-CE) is a Bible translation approved for use by the Catholic Church, receiving the imprimatur of the United States Conference of Catholic Bishops and the Canadian Conference of Catholic Bishops in 1991.

What is the Maitland approach to physical therapy? The Maitland approach is a manual therapy diagnostic tool using varying mobilizations of the spine, peripheral joints and other parts of the body to allow for more free movement. This approach uses passive and accessory movements within a controlled environment to learn your limitations and slowly stretch past them.

What is the Maitland concept of manipulative physiotherapy? The Maitland Concept of Manipulative Physiotherapy as it became known emphasizes a specific way of thinking, continuous evaluation and assessment and the art of manipulative physiotherapy ('know when, how and which techniques to perform, and adapt these to the individual situation of the patient') and a total ...

What is the Maitland concept and clinical reasoning? The Maitland® Concept combines a clinical process of thorough, extensive, and methodical examination, focused treatment and evaluative assessment of movement related neuromusculoskeletal disorders by manipulative physiotherapy.

What is mobilization in exercise therapy? Summary. Joint mobilization is a physical therapy technique meant to improve or normalize joint function. It can help decrease pain and improve range of motion. The amount and type of force applied to the joint vary, depending on the injury or musculoskeletal pain that is being treated.

Why is mobilization important in physiotherapy? The manipulation or mobilisation gets the joint moving which can: Reduce stiffness. Reduce pain. Increase range of movement.

How long does it take to do joint mobilizations? That is why you shouldn't expect only joint mobilizations for treatment. The mobilizations itself is done in anything between 30 seconds and a few minutes, depending on the size and depth of the structure being treated. This time will be incorporated into the overall time of your treatment session.

What speed is Maitland mobilisation? 2Hz - 120 movements per minute. For 30 seconds - 1 minute.

What is the difference between Maitland and Mulligan technique? Mulligan mobilization allows the patients to perform the offending movements in a functional position, hence, leading to a rewarding outcome[15]. Maitland mobilization aims to reestablish the spinning, gliding and rolling motions of the two joints[14].

What are the benefits of Maitland mobilization? How does the maitland concept help? The type of mobilisation used depends on the severity, irritability and nature of the spinal pain. The mobilisations create movement within the joints of the spine which reduces stiffness and makes movement easier. The increased ease of movement also reduces pain.

What are the two types of clinical reasoning?

What is the difference between clinical reasoning and judgment? 2 Clinical reasoning is the cognitive and metacognitive processes used for analyzing knowledge relative to a clinical situation or specific patient. 9 Clinical nursing judgment is the cognitive, psychomotor, and affective processes demonstrated through action and behaviors.

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What is the Maitland approach for neck pain? Maitland mobilization grade 3 and 4 treatment for the cervical spine and upper spine significantly decreases neck disability index (NDI), the pain index[15], and increases the range of motion[16].

What is the Maitland grade scale of joint mobilizations?

What is the effect of Maitland technique posterior glide with muscle energy technique for subscapularis muscle on adhesive capsulitis? Conclusion: After conducting a systematic analysis, it was concluded that the addition of Maitland to conventional physiotherapy treatment produces better outcomes in patients with shoulder adhesive capsulitis by improving the range of motion and reducing VAS and SPADI scores.

Is cobbler a Linux installation server? Cobbler is a Linux provisioning server that facilitates and automates the network-based system installation of multiple computer operating systems from a central point using services such as Dynamic Host Configuration Protocol, Trivial File Transfer Protocol, and Domain Name System.

How to install and configure Linux NTP server and client?

How do I install and configure a Linux server?

How to add new server in Linux?

How to setup a cobbler?

What are the different types of installation in Linux?

How to update NTP server in Linux?

How do I force a NTP server to sync in Linux?

What is the difference between NTP server and NTP client? The NTP client initiates a time-request exchange with the NTP server. The client is then able to calculate the link delay and its local offset and adjust its local clock to match the clock at the server's computer.

How do I install and configure a server?

What are the steps of installation of Linux?

What is the best Linux OS?

What is the command to upgrade Linux server?

How to check server configuration in Linux?

How do I connect to a local Linux server?

What is cobbler in Linux? Cobbler is a provisioning (installation) and update server. It supports deployments via PXE (network booting), virtualization (Xen, QEMU/KVM, or VMware), and re-installs of existing Linux systems. The latter two features are enabled by usage of 'Koan' on the remote system.

How to install cobbler in Ubuntu?

How do you know when a cobbler is set? Try this: Because the cobbler topping is a variation on a quick bread, we can take its temperature to ensure doneness. A probe thermometer inserted in the center of the cobbler should reach 200°F in the thickest part of the topping.

What are the 4 types of installation? 12.4 INSTALLATION This is also refer to conversion activity; converting an old system to a new system. At this stage, all users must give up their reliance on the current system and begin to rely on a new system. There are four approaches of installation; direct, parallel, single-location and phased installation.

What are the 3 installation types?

How many methods of Linux installation are there? Linux Installation Process Linux can be installed from various local and network sources. Apart from a few unique settings, the installation process for each installation source is essentially the same. Linux local media installation can be performed by using CD, DVD, or . iso sources.

Is WebSphere a Linux server? WebSphere Application Server (WAS) is built using open standards such as Java EE, XML, and Web Services. It runs on the following platforms: Windows, AIX, Linux, Solaris, IBM i and z/OS.

Do Microsoft use Linux servers? First, Microsoft itself relies on Linux for some of its most popular cloud services. -For example, Azure OpenAI Service, Azure

Kubernetes Service , the App Service, Cosmos DB, Azure Database for PostgreSQL and more all run on Linux.

What is Linux operating system server? Linux® server refers to a specific type of server based on the free, open-source, and modular Linux operating system. Linux is often the preferred choice for web servers over other server operating systems, given the many benefits.

What is Linux operating system installation? Linux Installation refers to the process of setting up the Linux operating system on a computer by confirming and modifying choices made prior to installation, copying system files, configuring the system, installing the Boot Manager, and preparing the system for the initial boot.

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