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perfect for new and longtime mac users this no fluff guide to os x el capitan is packed with details on system preferences the desktop finder applications and utilities you ll also find step by step instructions for printing scanning networking sharing troubleshooting and going online a windows glossary makes switching to mac mostly painless and keyboard mavens will find a complete list of

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this book is a condensed reference for html5 markup it presents the essential html5 elements and attributes in a well organized format that can be used as a handy reference html5 quick markup reference is an html5 reference title covering tags and parameters central to html5 markup using the netbeans 8 1 ide the book covers the tags used in html5 logically organized by topical chapters it gets more advanced as chapters progress covering the new media tags and file formats that are best for use with html5 as well as key factors regarding the data footprint optimization work process in lining css and js files and why data footprint optimization is important what you will learn the tags supported in html5 what comprises an html5 content production workflow concepts and principles behind html5 content production how to install and utilize inkscape for windows mac os x and linux concepts behind spline curves strokes fills patterns and rendering digital illustration data formats and data footprint optimization who this book is for website developers flash developers user interface designers html5 game designers teachers and educators

there have been seismic shifts in what constitutes the media in recent years with technological advances ushering in whole new categories of producers consumers and modes of delivery this has been reflected in the way media is studied with new theories concepts and practices coming to the fore media studies the basics is the ideal guide to this changing landscape and addresses core questions including who or what is the media what are the key terms and concepts used in analysing media where have been the impacts of the globalization of media how and by whom is media made in the 21st century featuring contemporary case studies from around the world a glossary and suggestions for further reading this is the ideal introduction to media studies today

make the most of your mac with this witty authoritative guide to macos big sur apple updates its mac operating system every year adding new features with every revision but after twenty years of this updating cycle without a printed user guide to help customers feature bloat and complexity have

begun to weigh down the works for thirty years the mac faithful have turned to david pogue's mac books to guide them with mac unlocked new york times bestselling author pogue introduces readers to the most radical mac software redesign in apple history macos big sur beginning mac users and windows refugees will gain an understanding of the mac philosophy mac veterans will find a concise guide to what's new in big sur including its stunning visual and sonic redesign the new control center for quick settings changes and the built-in security auditing features with a 300 annotated illustrations sparkling humor and crystal clear prose mac unlocked is the new gold standard guide to the mac

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perfect for new and longtime mac users this no fluff guide to macos sierra is packed with details on system preferences the desktop finder applications and utilities you'll also find step-by-step instructions for printing scanning networking sharing troubleshooting and going online a windows glossary makes switching to mac mostly painless and keyboard mavens will find a complete list of keyboard shortcuts new features covered include siri universal clipboard auto unlock with apple watch apple pay icloud desktop and documents optimized storage picture-in-picture tabbed documents and updates to messages photos notes contacts notification center system preferences and finder see live previews of documents pictures and folders ask siri to answer questions make recommendations and complete common tasks use mission control to juggle all your open windows desktops and displays dock programs documents and folders for one-click access tag your files to make them easy to sort and find use finder tabs to declutter your desktop see all your notifications in one place spread your work over multiple displays enhance and customize macos with extensions use icloud to store and access the latest versions of your files and settings online share itunes ibooks and app store purchases freely with your family organize view edit sync and share your photos sync your files mail contacts appointments reminders notes and messages wirelessly across your mac windows pc and ios devices get instant search results for documents pictures music mail programs online sources and more dictate anywhere that you can type play games on game center apple's online multiplayer social gaming network post to facebook and twitter right from the app you're using mirror your mac's screen to your hdtv wirelessly via airplay or use your hdtv as a full-fledged display complete with dock and menu bar share files and printers on your home network move seamlessly between your mac iphone ipad and ipod touch or use them together connect to wireless networks with a couple of clicks set up and manage printers scanners and other devices download and install macos apps and updates from the mac app store secure your data from thieves and snoops plenty of tips tricks and timesavers fully cross-referenced linked and searchable contents 1 macos basics 2 the desktop 3 system preferences 4 files folders drives 5 programs documents 6 printing faxing fonts 7 networks sharing 8 internet connections 9 security privacy 10 maintenance backups 11 switching from windows 12 keyboard shortcuts

fully updated and revised the second edition of media studies the basics is the ideal guide to the changing landscape of media and media studies there have been seismic shifts in what constitutes the media in recent years with technological advances ushering in whole new categories of producers consumers and modes of delivery this has been reflected in the way media is studied with new theories concepts and practices coming to the fore this new edition addresses core questions including who or what are the media what are the key terms and concepts used in analysing media where have new media technologies had the biggest impact how and by whom is media made in the 21st century featuring new case studies an updated glossary and suggestions for further reading this is the ideal introduction to media studies today for both a level and undergraduate students

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the windows 10 may 2019 update adds a host of new and improved features to microsoft s flagship operating system and this jargon free guide helps you get the most out of every component this in depth missing manual covers the entire system and introduces you to the latest features in the windows professional enterprise education and home editions you ll learn how to take advantage of improvements to the game bar edge browser windows online smartphone features and a lot more written by david pogue tech critic for yahoo finance and former columnist for the new york times this updated edition illuminates its subject with technical insight plenty of wit and hardnosed objectivity

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transform raw data into actionable insights by collecting cleaning analyzing and visualizing data key features use data analytics to create insights that drive better decision making create interactive visualizations that communicate data insights to stakeholders use visualizations to communicate the findings of your analysis in a way that is easy to understand and interpret description data driven culture is becoming increasingly important in modern enterprises and self service bi tools are making

it easier for professionals to gain insights from data this book serves as a practical and invaluable guide for all data driven users empowering them to gain insights rapidly and effortlessly thereby enabling organizations to unlock the true potential of their data this book is a practical guide that teaches readers how to use self service bi tools to organize clean and analyze data it offers step by step instructions on connecting to and refining data from various sources including data lakes data warehouses cloud applications and spreadsheets including platforms such as snowflake or amazon redshift the book also provides expert guidance on smart data preparation and data discovery techniques equipping you with a comprehensive understanding of all the capabilities and features of power bi through practical examples you will learn how to run design and test a wide array of analytics along with insightful visualizations heatmaps and reports by the end of the book you will be able to use self service bi tools to conduct analysis and generate data driven business reports without any technical skills what you will learn discover combine and transform data from various sources using power query learn how to create and manage data models in power bi create a range of visualizations in power bi including charts tables and maps understand how to create analyze and share interactive reports in power bi leverage power bi premium features to handle large datasets proficiently who this book is for this book is for anyone who wants to learn about data analytics regardless of their current role or experience level table of contents 1 getting started with power bi 2 data discovery using power query 3 data modeling in power bi 4 visualizing data in power bi 5 managing reports in power bi service 6 working with large data volumes 7 dax reference guide 8 use case creating a risk report in power bi epilogue knowledge check answers

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folder views 4 sorting folder contents 5 selecting files 6 opening a file 7 reopening a frequently opened folder 8 creating a new folder 9 renaming files and folders 10 cutting copying and pasting files and folders 11 burning a cd or dvd 12 deleting files 13 managing libraries in windows 10 14 managing the computer and drives in windows 10 15 quick access in windows 10 16 onedrive folders in file explorer 17 zip folders in file explorer 18 unzip files in file explorer windows 10 settings 1 windows 10 settings system settings 1 accessing the system settings 2 changing the display settings 3 notification and action settings 4 managing apps and features 5 multitasking settings in windows 10 6 battery saver settings in windows 10 7 power and sleep settings in windows 10 8 manage storage space in windows 10 9 download and manage offline maps in windows 10 10 set the default apps in windows 10 11 view information about your device devices settings 1 accessing the devices settings 2 managing printers and scanners 3 managing other connected devices 4 mouse and touchpad settings 5 typing settings 6 autoplay settings network and internet settings 1 accessing the network and internet settings 2 connect to wi fi networks and manage wi fi settings 3 airplane mode settings 4 view data usage 5 vpn settings 6 dial up settings 7 ethernet settings 8 proxy settings personalization settings 1 accessing the personalization settings 2 changing the background settings 3 changing the color settings 4 lock screen and screen saver settings 5 theme sound and desktop icon settings 6 start settings accounts settings 1 accessing the accounts settings 2 managing your account settings 3 manage sign in options for your device 4 managing work access account settings 5 managing family and other users 6 managing sync settings time and language settings 1 accessing the time and language settings 2 date and time settings 3 region and language settings 4 speech settings ease of access settings 1 accessing the ease of access settings 2 narrator settings 3 magnifier settings 4 high contrast settings 5 closed captions settings 6 keyboard accessibility settings 7 mouse accessibility settings 8 cursor and other visual accessibility settings privacy settings 1 accessing the privacy settings 2 general privacy settings 3 location privacy settings 4 camera privacy settings 5 microphone privacy settings 6 speech inking and typing privacy settings 7 account info privacy settings 8 contacts privacy settings 9 calendar privacy settings 10 messaging privacy settings 11 radios privacy settings 12 privacy settings for other devices 13 feedback and diagnostics privacy settings 14 background apps privacy settings update and security settings 1 accessing the update and security settings 2 windows update settings 3 windows defender settings 4 backup settings 5 recovery settings 6 activation settings 7 developer settings control panel settings 1 the control panel 2 file history 3 system restore 4 audio adjustment 5 adding devices and printers 6 installing and uninstalling software desktop management 1 the recycle bin 2 creating desktop shortcuts 3 pinning items to the taskbar 4 moving and resizing the taskbar 5 setting the date and time display 6 the action center 7 virtual desktops 8 onedrive settings 9 using cortana creating documents 1 starting wordpad and creating a new document 2 copying and pasting text 3 formatting text 4 saving a document 5 opening a document 6 printing a document 7 closing a document drawing pictures 1 starting paint and creating a new document 2 drawing shapes and lines 3 adding text 4 erasing parts of a picture 5 saving a picture 6 opening a picture using the internet and microsoft edge 1 about the internet 2 connecting to the internet 3 the microsoft edge interface 4 viewing pages in microsoft edge 5 find text in pages in microsoft edge 6 reading view in microsoft edge 7 add a favorite to microsoft edge 8 add a page to the reading list 9 manage favorites in the hub 10 manage the reading list in the hub 11 manage browser history in the hub 12 manage downloads in the hub 13 make a note in microsoft edge 14 sharing pages in microsoft edge 15 opening a new window or new inprivate window 16 zoom pages in microsoft edge 17 print pages in microsoft edge 18 settings in microsoft edge 19 advanced settings in microsoft edge 20 using cortana in microsoft edge 21 windows defender in windows 10 printing information 1 selecting a printer 2 general printing options 3 managing print jobs

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content distribution i.e. distributing digital content from one node to another node or multiple nodes is the most fundamental function of the internet since amazon's launch of ec2 in 2006 and apple's release of the iphone in 2007 internet content distribution has shown a strong trend toward polarization on the one hand considerable investments have been made in creating heavyweight integrated data centers heavy cloud all over the world in order to achieve economies of scale and high flexibility efficiency of content distribution on the other hand end user devices light end have become increasingly lightweight mobile and heterogeneous creating new demands concerning traffic usage energy consumption bandwidth latency reliability and or the security of content distribution based on comprehensive real world measurements at scale we observe that existing content distribution techniques often perform poorly under the abovementioned new circumstances motivated by the trend of heavy cloud vs light end this book is dedicated to uncovering the root causes of today's mobile networking problems and designing innovative cloud based solutions to practically address such problems our work has produced not only academic papers published in prestigious conference proceedings like sigcomm nsdi mobicom and mobisys but also concrete effects on industrial systems such as xiaomi mobile miui os tencent app store baidu phoneguard and wifi com a series of practical takeaways and easy to follow testimonials are provided to researchers and practitioners working in mobile networking and cloud computing in addition we have released as much code and data used in our research as possible to benefit the community

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# Unveiling the Proton's Identity: Understanding its Mass-to-Charge Ratio

The seemingly simple question, "What is a proton?" belies a rich tapestry of fundamental physics. Understanding the properties of this subatomic particle, particularly its mass-to-charge ratio ( $m/z$ ), is crucial to comprehending the behavior of matter at its most basic level. This ratio isn't merely an abstract number; it's a key parameter in numerous scientific instruments and techniques, shaping our understanding from the smallest particles to the largest stars. This article delves into the intricacies of the proton's  $m/z$ , exploring its determination, significance, and practical applications.

## 1. Defining the Mass-to-Charge Ratio ( $m/z$ )

The mass-to-charge ratio ( $m/z$ ) is a fundamental property of any charged particle. It represents the ratio of a particle's mass ( $m$ ) to its electric charge ( $z$ ). For protons, the charge ( $z$ ) is positive and equal to the elementary charge, denoted as 'e' (approximately  $1.602 \times 10^{-19}$  Coulombs). Therefore, the  $m/z$  of a proton essentially represents its mass scaled by its unit positive charge. The precise value of this ratio is critical because it governs the particle's behavior in electric and magnetic fields. A higher  $m/z$  means a particle will be less affected by these fields compared to a particle with a lower  $m/z$ , at the same velocity.

## 2. Determining the Mass-to-Charge Ratio of a Proton

The accurate determination of the proton's  $m/z$  was a landmark achievement in early 20th-century physics. J.J. Thomson's pioneering work using cathode ray tubes, though initially focused on electrons, laid the groundwork for techniques that could later be adapted to study positively charged particles. However, accurately measuring the  $m/z$  of a proton proved more challenging due to its higher mass compared to the electron. The most accurate methods for determining the proton's  $m/z$  involve mass spectrometry. This technique uses electric and magnetic fields to separate ions based on their  $m/z$  ratio. By carefully measuring the deflection of proton beams in these fields, scientists can calculate the  $m/z$  with remarkable precision. Modern mass spectrometry techniques achieve incredibly high resolving power, allowing for extremely accurate mass measurements, leading to refined values of the proton's mass and ultimately its  $m/z$  ratio. Other techniques, such as cyclotron resonance, also provide accurate measurements.

## 3. The Significance of the Proton's $m/z$

The proton's  $m/z$  isn't just a number; it's a fundamental constant with far-reaching implications across diverse scientific fields: **Nuclear Physics:** The  $m/z$  of the proton is essential for understanding nuclear reactions and the stability of atomic nuclei. It's a cornerstone in calculations involving nuclear binding energy, radioactive decay, and nuclear fusion processes, crucial for stellar evolution models and nuclear energy applications. **Mass Spectrometry:** Mass spectrometry, a ubiquitous analytical technique, relies directly on the  $m/z$  ratio. It's used in various fields, from identifying compounds in environmental samples to characterizing proteins in biological systems. The precise knowledge of a proton's  $m/z$  is crucial for calibrating mass spectrometers and ensuring accurate measurements. **Particle Physics:** The  $m/z$  of the proton is vital in the Standard Model of particle physics, which describes the fundamental building blocks of matter. Precise measurements



contribute to testing the model's predictions and searching for new particles. Any deviation from the predicted  $m/z$  could indicate new physics beyond the Standard Model. Astrophysics: Understanding the proton's  $m/z$  is crucial for modeling the behavior of plasmas in stars and other celestial objects. These plasmas, composed largely of protons and electrons, are governed by electromagnetic forces, and the proton's  $m/z$  is a critical parameter in understanding their dynamics.

## 4. Real-World Applications

The practical applications stemming from our understanding of the proton's  $m/z$  are vast: Medical Imaging: Positron emission tomography (PET) scans, a vital medical imaging technique, utilize the annihilation of positrons (antimatter counterparts of electrons) with electrons, producing gamma rays. Accurate knowledge of the proton's  $m/z$ , and hence its related particles, is necessary for interpreting PET scans correctly. Carbon Dating: Radiocarbon dating, used to determine the age of ancient artifacts, relies on the decay of carbon-14, a radioactive isotope. The decay rate involves protons and neutrons, and an accurate understanding of their properties is essential for precise dating. Materials Science: Mass spectrometry is employed to analyze the composition of materials, identifying impurities and characterizing their properties. The proton's  $m/z$  plays a pivotal role in these analyses, helping scientists develop new materials with desired characteristics.

## 5. Conclusion

The mass-to-charge ratio of the proton is not merely a physical constant; it's a fundamental parameter that underpins our understanding of the universe at its most basic level. From the inner workings of atoms to the vast expanse of space, the proton's  $m/z$  plays a critical role in diverse scientific fields. Precise measurements and a deep understanding of this ratio are essential for advancing our knowledge across various scientific disciplines, leading to new technologies and insights.

## FAQs

1. How is the proton's mass measured independently of its charge? The proton's mass can be measured independently using techniques like Penning traps, which confine ions using a combination of electric and magnetic fields, allowing for extremely precise mass measurements based on its cyclotron frequency. 2. Does the  $m/z$  ratio of a proton change under different conditions? No, the  $m/z$  ratio of a proton is a fundamental constant and doesn't change under normal conditions. However, extreme conditions like those found in neutron stars might slightly alter the effective mass due to strong interactions. 3. What is the exact value of the proton's  $m/z$  ratio? The value is approximately  $9.57883 \times 10^7$  kg/C, derived from the proton's mass (approximately  $1.6726 \times 10^{-27}$  kg) and its elementary charge. More precise values are constantly being refined through ongoing research. 4. How does the  $m/z$  ratio compare to that of other ions? Other ions have different  $m/z$  ratios, depending on their mass and charge. For example, a deuteron (hydrogen-2 nucleus) has twice the mass of a proton but the same charge, resulting in a different  $m/z$ . This difference allows for their separation in mass spectrometry. 5. What are the future directions of research related to the proton's  $m/z$ ? Future research will focus on even more precise measurements of the proton's mass and charge, testing the limits of the Standard Model and potentially uncovering new physics. This includes exploring potential variations in fundamental constants over cosmological timescales.

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