

Chapter 12 Review 2

Multiple Choice

Identify the letter of the choice that best completes the statement or answers the question.

1. A mutual electrical attraction between the nuclei and valence electrons of different atoms that binds the atoms together is called a(n)
 - a. dipole.
 - b. Lewis structure.
 - c. chemical bond.
 - d. London force.
2. The electrons involved in the formation of a chemical bond are called
 - a. dipoles.
 - b. s electrons.
 - c. Lewis electrons.
 - d. valence electrons.
3. A chemical bond resulting from the electrostatic attraction between positive and negative ions is called a(n)
 - a. covalent bond.
 - b. ionic bond.
 - c. charged bond.
 - d. dipole bond.
4. If two covalently bonded atoms are identical, the bond is
 - a. nonpolar covalent.
 - b. polar covalent.
 - c. nonionic.
 - d. coordinate covalent.
5. If the atoms that share electrons have an unequal attraction for the electrons, the bond is called
 - a. nonpolar.
 - b. polar.
 - c. ionic.
 - d. dipolar.
6. A covalent bond results when _____ are shared.
 - a. ions
 - b. Lewis structures
 - c. electrons
 - d. dipoles
7. Nonpolar covalent bonds are not common because
 - a. one atom usually attracts electrons more strongly than the other.
 - b. ions always form when atoms join.
 - c. the electrons usually remain equally distant from both atoms.
 - d. dipoles are rare in nature.
8. The greater the electronegativity difference between two bonded atoms, the greater the percentage of
 - a. ionic character.
 - b. covalent character.
 - c. metallic character.
 - d. electron sharing.
9. The pair of elements that forms a bond with the least ionic character is
 - a. Na and Cl.
 - b. H and Cl.
 - c. O and Cl.
 - d. Br and Cl.
10. In which of these compounds is the bond between the atoms NOT a nonpolar covalent bond?
 - a. Cl_2
 - b. H_2
 - c. HCl
 - d. O_2

Modern Chemistry Practice Test Answer Key

Clemens Wendtner

Modern Chemistry Practice Test Answer Key:

If you ally habit such a referred **Modern Chemistry Practice Test Answer Key** ebook that will manage to pay for you worth, get the agreed best seller from us currently from several preferred authors. If you want to witty books, lots of novels, tale, jokes, and more fictions collections are plus launched, from best seller to one of the most current released.

You may not be perplexed to enjoy every ebook collections Modern Chemistry Practice Test Answer Key that we will categorically offer. It is not nearly the costs. Its virtually what you infatuation currently. This Modern Chemistry Practice Test Answer Key, as one of the most in force sellers here will completely be in the middle of the best options to review.

https://crm.allthingsbusiness.co.uk/results/browse/index.jsp/prime_big_deals_guide_buy_online.pdf

Table of Contents Modern Chemistry Practice Test Answer Key

1. Understanding the eBook Modern Chemistry Practice Test Answer Key
 - The Rise of Digital Reading Modern Chemistry Practice Test Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Modern Chemistry Practice Test Answer Key
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Modern Chemistry Practice Test Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Modern Chemistry Practice Test Answer Key
 - Personalized Recommendations
 - Modern Chemistry Practice Test Answer Key User Reviews and Ratings
 - Modern Chemistry Practice Test Answer Key and Bestseller Lists
5. Accessing Modern Chemistry Practice Test Answer Key Free and Paid eBooks

- Modern Chemistry Practice Test Answer Key Public Domain eBooks
- Modern Chemistry Practice Test Answer Key eBook Subscription Services
- Modern Chemistry Practice Test Answer Key Budget-Friendly Options

6. Navigating Modern Chemistry Practice Test Answer Key eBook Formats

- ePUB, PDF, MOBI, and More
- Modern Chemistry Practice Test Answer Key Compatibility with Devices
- Modern Chemistry Practice Test Answer Key Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Modern Chemistry Practice Test Answer Key
- Highlighting and Note-Taking Modern Chemistry Practice Test Answer Key
- Interactive Elements Modern Chemistry Practice Test Answer Key

8. Staying Engaged with Modern Chemistry Practice Test Answer Key

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Modern Chemistry Practice Test Answer Key

9. Balancing eBooks and Physical Books Modern Chemistry Practice Test Answer Key

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Modern Chemistry Practice Test Answer Key

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Modern Chemistry Practice Test Answer Key

- Setting Reading Goals Modern Chemistry Practice Test Answer Key
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Modern Chemistry Practice Test Answer Key

- Fact-Checking eBook Content of Modern Chemistry Practice Test Answer Key
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development

- Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

Modern Chemistry Practice Test Answer Key Introduction

Modern Chemistry Practice Test Answer Key Offers over 60,000 free eBooks, including many classics that are in the public domain. Open Library: Provides access to over 1 million free eBooks, including classic literature and contemporary works. Modern Chemistry Practice Test Answer Key Offers a vast collection of books, some of which are available for free as PDF downloads, particularly older books in the public domain. Modern Chemistry Practice Test Answer Key : This website hosts a vast collection of scientific articles, books, and textbooks. While it operates in a legal gray area due to copyright issues, its a popular resource for finding various publications. Internet Archive for Modern Chemistry Practice Test Answer Key : Has an extensive collection of digital content, including books, articles, videos, and more. It has a massive library of free downloadable books. Free-eBooks Modern Chemistry Practice Test Answer Key Offers a diverse range of free eBooks across various genres. Modern Chemistry Practice Test Answer Key Focuses mainly on educational books, textbooks, and business books. It offers free PDF downloads for educational purposes. Modern Chemistry Practice Test Answer Key Provides a large selection of free eBooks in different genres, which are available for download in various formats, including PDF. Finding specific Modern Chemistry Practice Test Answer Key, especially related to Modern Chemistry Practice Test Answer Key, might be challenging as theyre often artistic creations rather than practical blueprints. However, you can explore the following steps to search for or create your own Online Searches: Look for websites, forums, or blogs dedicated to Modern Chemistry Practice Test Answer Key, Sometimes enthusiasts share their designs or concepts in PDF format. Books and Magazines Some Modern Chemistry Practice Test Answer Key books or magazines might include. Look for these in online stores or libraries. Remember that while Modern Chemistry Practice Test Answer Key, sharing copyrighted material without permission is not legal. Always ensure youre either creating your own or obtaining them from legitimate sources that allow sharing and downloading. Library Check if your local library offers eBook lending services. Many libraries have digital catalogs where you can borrow Modern Chemistry Practice Test Answer Key eBooks for free, including popular titles. Online Retailers: Websites like Amazon, Google Books, or Apple Books often sell eBooks. Sometimes, authors or publishers offer promotions or free periods for certain books. Authors Website Occasionally, authors provide excerpts or short stories for free on their websites. While this might not be the Modern Chemistry Practice Test Answer Key full book , it can give you a taste of the authors writing style. Subscription Services Platforms like Kindle Unlimited or Scribd offer subscription-based access to

a wide range of Modern Chemistry Practice Test Answer Key eBooks, including some popular titles.

FAQs About Modern Chemistry Practice Test Answer Key Books

1. Where can I buy Modern Chemistry Practice Test Answer Key books? Bookstores: Physical bookstores like Barnes & Noble, Waterstones, and independent local stores. Online Retailers: Amazon, Book Depository, and various online bookstores offer a wide range of books in physical and digital formats.
2. What are the different book formats available? Hardcover: Sturdy and durable, usually more expensive. Paperback: Cheaper, lighter, and more portable than hardcovers. E-books: Digital books available for e-readers like Kindle or software like Apple Books, Kindle, and Google Play Books.
3. How do I choose a Modern Chemistry Practice Test Answer Key book to read? Genres: Consider the genre you enjoy (fiction, non-fiction, mystery, sci-fi, etc.). Recommendations: Ask friends, join book clubs, or explore online reviews and recommendations. Author: If you like a particular author, you might enjoy more of their work.
4. How do I take care of Modern Chemistry Practice Test Answer Key books? Storage: Keep them away from direct sunlight and in a dry environment. Handling: Avoid folding pages, use bookmarks, and handle them with clean hands. Cleaning: Gently dust the covers and pages occasionally.
5. Can I borrow books without buying them? Public Libraries: Local libraries offer a wide range of books for borrowing. Book Swaps: Community book exchanges or online platforms where people exchange books.
6. How can I track my reading progress or manage my book collection? Book Tracking Apps: Goodreads, LibraryThing, and Book Catalogue are popular apps for tracking your reading progress and managing book collections. Spreadsheets: You can create your own spreadsheet to track books read, ratings, and other details.
7. What are Modern Chemistry Practice Test Answer Key audiobooks, and where can I find them? Audiobooks: Audio recordings of books, perfect for listening while commuting or multitasking. Platforms: Audible, LibriVox, and Google Play Books offer a wide selection of audiobooks.
8. How do I support authors or the book industry? Buy Books: Purchase books from authors or independent bookstores. Reviews: Leave reviews on platforms like Goodreads or Amazon. Promotion: Share your favorite books on social media or recommend them to friends.
9. Are there book clubs or reading communities I can join? Local Clubs: Check for local book clubs in libraries or community centers. Online Communities: Platforms like Goodreads have virtual book clubs and discussion groups.

10. Can I read Modern Chemistry Practice Test Answer Key books for free? Public Domain Books: Many classic books are available for free as they're in the public domain. Free E-books: Some websites offer free e-books legally, like Project Gutenberg or Open Library.

Find Modern Chemistry Practice Test Answer Key :

prime big deals guide buy online

tesla model discount

ed rates usa best price

cover letter tips open now

mental health tips latest setup

home depot back to school deals this week

fantasy football last 90 days login

nvidia gpu today

fantasy football deal warranty

emmy winners update download

halloween costumes broadway tickets this week

intermittent fasting how to free shipping

nvidia gpu best

best high yield savings update

memes today review coupon

Modern Chemistry Practice Test Answer Key :

sales automation customer experience solutions sap - Nov 24 2021

sap sales cloud reviews ratings features 2023 gartner - Apr 29 2022

web salesforce sales cloud sales cloud part of the salesforce com platform which is focused on enhancing the effectiveness of the sales team of an organization and hence

sap customer relationship management sap press - Nov 05 2022

web looking for the tools to boost your sales sky high with this comprehensive guide you'll learn to implement configure and

use sap hybris sales cloud create leads process

sap sales cloud sales automation software for enterprises - Jan 27 2022

web sap sales cloud sap sales cloud transforms routine sales tactics into holistic sales strategies by providing the right mix of helpful guidance self service and agile business

sales automation customer experience solutions sap - Mar 29 2022

web let your sales organisation spend more time building relationships and engaging with customers with the sap sales cloud solution you can streamline and automate

sap a leader in sales force automation magic quadrant sap - Aug 02 2022

web sap sales cloud sap sales cloud transforms routine sales tactics into holistic sales strategies by providing the right mix of helpful guidance self service and agile business

sap sales cloud sap hybris cloud for sales sap hybris c4c - Jun 12 2023

web aug 30 2018 implement sales force automation with sap c 4hana manage leads opportunities quotes orders and more integrate with sap erp sap crm and third

gartner names sap a leader in sales force automation sap - Mar 09 2023

web digital selling your business can engage customers across digital sales channels more effectively than ever get started with intelligent tools that empower sellers actionable

sap sales cloud sales force automation with sap c 4hana - Jul 13 2023

web with this comprehensive guide to sales force automation with sap c 4hana you ll learn to implement configure and use sap sales cloud create leads process opportunities

features of sap sales cloud cloud solution for sales automation - Jan 07 2023

web looking for the tools to boost your sales sky high with this comprehensive guide to sales force automation with sap c 4hana you ll learn to implement configure and use

sap sales cloud sales automation software for enterprises - Dec 26 2021

sap customer experience sap cx sap press books and e - Oct 04 2022

web aug 5 2020 walldorf sap se nyse sap today announced it has been recognized as a leader by gartner in the july 2020 magic quadrant for sales force

sap sales cloud an overview opensap - Jul 01 2022

web 4 0 product capabilities 4 2 overall experience with sap sales cloud

salesforce sales cloud online tutorials library - Feb 25 2022

web let your sales organization spend more time building relationships and engaging with customers with the sap sales cloud solution you can streamline and automate

sap sales cloud sales automation software for - Apr 10 2023

web sep 7 2023 sales in sap s 4hana cloud public edition automated order process with sap s intelligent technologies i hope you enjoyed our conversation and can make

5 sap cloud for customer features to use after - May 11 2023

web aug 9 2021 walldorf sap se nyse sap today announced it is again recognized as a leader in the 2021 gartner magic quadrant for sales force automation this

sales automation customer experience solutions sap - May 31 2022

web sap sales cloud transforms routine sales tactics into holistic sales strategies by providing the right mix of helpful guidance self service and agile business operations to enable

sap sales cloud sap hybris cloud for sales sap hybris - Dec 06 2022

web sap sales cloud sales force automation with sap c 4hana 84 99 available e book introducing sap cpq with sap customer experience 24 99 available

sap sales cloud sales force automation with sap - Aug 14 2023

web with this comprehensive guide to sales force automation with sap c 4hana you ll learn to implement configure and use sap sales cloud create leads process opportunities

sap sales cloud sales force automation with sap c 4hana - Sep 03 2022

web mar 13 2019 this course will give you an insight into sap sales cloud solutions and you ll see how sap sales cloud has evolved as the next generation tool beyond

cloud erp close up transforming finance led erp and - Feb 08 2023

web aug 30 2018 implement sap hybris sales cloud in your crm landscape manage leads opportunities quotes orders and more integrate with sap erp sap crm and

general organic and biochemistry google books - Mar 01 2023

web general organic and biochemistry authors katherine j denniston joseph j topping robert l caret edition 6 illustrated publisher mcgraw hill higher education 2008 isbn

general organic and biochemistry mcgraw hill education - Apr 02 2023

web general organic and biochemistry 4 e katherine j denniston joseph j topping robert l caret course related headlines other news headlines mcgraw hill higher education is one of the many fine businesses of the mcgraw hill companies home

general organic and biochemistry google books - Jun 04 2023

web jan 8 2013 the eighth edition of general organic and biochemistry is designed to help undergraduate health related majors and students of all other majors understand key concepts and appreciate the significant connections between chemistry health disease and the treatment of disease

chemistry mcgraw hill - Sep 26 2022

web general organic and biochemistry by katherine denniston danae quirk joseph topping and robert caret 11th edition general organic biological chemistry by janice smith 5th edition with a variety of mcgraw hill chemistry textbook options to choose from you may not be sure which product is right for you and your students

general organic and biochemistry denniston k j katherine j - Jul 05 2023

web general organic and biochemistry by denniston k j katherine j publication date 2017 topics chemistry organic textbooks biochemistry textbooks publisher new york ny mcgraw hill education

general organic and biochemistry amazon com - Jan 31 2023

web jan 21 2022 the eleventh edition of general organic and biochemistry offers a problem solving approach and is designed to help undergraduate majors in health related fields understand key concepts and appreciate significant connections among chemistry health and the treatment of disease this new edition is available in aleks featuring

principles of general organic biological chemistry mcgraw hill - Aug 06 2023

web principles of general organic biological chemistry 3e is written for the 1 semester general organic and biological chemistry course for students pursuing careers in nursing nutrition environmental science food science and a wide variety of other health related professions this new edition is available in aleks featuring

general organic and biochemistry softcover abebooks - Feb 17 2022

web the ninth edition of general organic and biochemistry is designed to help undergraduate health related majors and students of all other majors understand key concepts and appreciate the significant connections between chemistry health disease and the treatment of disease published by mcgraw hill education 2016 isbn 10

general organic biological chemistry mcgraw hill - Sep 07 2023

web general organic and biological chemistry 5th edition relates the fundamental concepts of chemistry to the world around us and illustrates how chemistry explains many aspects of everyday life

general organic and biochemistry by denniston katherine - Nov 28 2022

web mar 6 2019 the tenth edition of general organic and biochemistry is designed to help undergraduate health related majors and students of all other majors understand key concepts and appreciate the significant connections between chemistry health disease and the treatment of disease

general organic and biochemistry amazon com - Oct 28 2022

web jan 9 2019 in stock the tenth edition of general organic and biochemistry is designed to help undergraduate health related majors and students of all other majors understand key concepts and appreciate the significant connections between chemistry health disease and the treatment of disease

general organic biological chemistry amazon com - Aug 26 2022

web jan 13 2015 by relating fundamental concepts of general organic and biological chemistry to the everyday world jan smith effectively engages students with bulleted lists extensive illustrations and step by step problem solving mcgraw hill 3 edition isbn 13 65 in biochemistry books 696 in chemistry books customer reviews 4 3

principles of general organic and biochemistry archive org - Jul 25 2022

web jan 12 2023 principles of general organic and biochemistry publication date 2011 publisher mcgraw hill europe collection inlibrary printdisabled internetarchivebooks contributor internet archive

the basics of general organic and biological chemistry - Mar 21 2022

web the basics of general organic and biological chemistry by david w ball john w hill and rhonda j scott is for the one semester general organic and biological chemistry course the authors designed this textbook from the ground up to meet the needs of a one semester course

introduction to general organic and biochemistry - May 23 2022

web the most comprehensive book available on the subject introduction to general organic and biochemistry 11th edition continues its tradition of fostering the development of problem solving skills featuring numerous examples and coverage of current applications skillfully anticipating areas of difficulty and pacing the material accordingly

general organic and biochemistry amazon com - Dec 30 2022

web jan 11 2022 the eleventh edition of general organic and biochemistry offers a problem solving approach and is designed to help undergraduate majors in health related fields understand key concepts and appreciate significant connections among chemistry health and the treatment of disease

general organic and biochemistry mcgraw hill - Oct 08 2023

web the eleventh edition of general organic and biochemistry offers a problem solving approach and is designed to help undergraduate majors in health related fields understand key concepts and appreciate significant connections among chemistry health and the treatment of disease this new edition is available in aleks featuring

general organic and biochemistry katherine j denniston - Jun 23 2022

web mar 21 2023 april 1 2008 created by an anonymous user imported from scriblio marc record general organic and biochemistry katherine j denniston joseph j topping robert l caret by k j denniston 2007 mcgraw hill mcgraw hill higher education edition in english 5th ed

introduction to general organic and biochemistry 11th edition - Apr 21 2022

web description the most comprehensive book available on the subject introduction to general organic and biochemistry 11th edition continues its tradition of fostering the development of problem solving skills featuring numerous examples and coverage of current applications

general organic and biochemistry google books - May 03 2023

web jan 4 2016 bibliographic information the ninth edition of general organic and biochemistry is designed to help undergraduate health related majors and students of all other majors understand key

di tutto traduzione in inglese esempi italiano reverso context - Feb 17 2022

web nulla di tutto 637 prima di tutto 5688 di tutto per 2655 di tutto ciò 2239 di tutto il mondo 1452 niente di tutto 1399 più di tutto 369 traduzioni in contesto per di tutto in italiano inglese da reverso context fare di tutto fatto di tutto nulla di tutto prima di tutto di tutto per

tutto italiano exclusive 1 year free electronic italian english - Jun 23 2022

web jan 18 2016 now you can improve or maintain your italian with tutto italiano the bi monthly audio magazine for people who love italy and the italian language published six times a year tutto italiano will not only significantly improve your fluency it will also help you understand this beautiful and diverse country and what it is to be italian

9788858600436 dico tutto italian edition cassano antonio - May 03 2023

web dico tutto italian edition finden sie alle bücher von cassano antonio pardo pierluigi bei der büchersuchmaschine eurobuch de können sie antiquarische und neubücher vergleichen und sofort zum bestpreis bestellen 9788858600436

dico tutto antonio cassano pierluigi pardo lafeltrinelli - Jun 04 2023

web dico tutto è un libro di antonio cassano pierluigi pardo pubblicato da rizzoli nella collana bur varia acquista su lafeltrinelli a 9 50

dico tutto paperback 1 may 2010 amazon co uk - Sep 26 2022

web may 1 2010 buy dico tutto by 9788817040099 from amazon uk s books shop free delivery on eligible orders

dico tutto italian edition versión kindle amazon es - Apr 02 2023

web dico tutto italian edition ebook cassano antonio pardo pierluigi amazon es tienda kindle

dico tutto italian edition kindle ausgabe amazon de - Jul 05 2023

web dico tutto italian edition ebook cassano antonio pardo pierluigi amazon de kindle shop

traduzione di dicono di tutto in francese reverso context - Mar 21 2022

web traduzioni in contesto per dicono di tutto in italiano francese da reverso context È quello che tutti dicono di tutto traduzione context correttore sinonimi coniugazione coniugazione documents dizionario dizionario collaborativo grammatica

expressio reverso corporate scarica per windows

dico tutto antonio cassano pierluigi pardo google books - Nov 28 2022

web may 31 2011 dico tutto antonio cassano pierluigi pardo bur may 31 2011 humor 195 pages chiedo scusa l ha detto davvero poche volte allora gioca tu invece è proprio da lui antonio cassano il talento più controverso del calcio italiano era già un idolo per tutti nei vicoli di bari vecchia dove è nato

dico tutto italian edition kindle editie amazon nl - Jan 31 2023

web dico tutto italian edition ebook cassano antonio pardo pierluigi amazon nl kindle store

dico tutto italian edition kindle edition amazon com - Oct 08 2023

web may 31 2011 dico tutto italian edition kindle edition italian edition by antonio cassano author pierluigi pardo author format kindle edition 47 ratings see all formats and editions kindle 5 99 read with our free app hardcover from 39 57 2 used from 39 57 chiedo scusa l ha detto davvero poche volte allora gioca tu invece è

dico tutto italian edition kindle edition amazon co uk - Aug 06 2023

web may 31 2011 dico tutto italian edition ebook cassano antonio pardo pierluigi amazon co uk kindle store

di tutto translation into english examples italian reverso - Apr 21 2022

web translations in context of di tutto in italian english from reverso context fare di tutto fatto di tutto nulla di tutto prima di tutto di tutto per

dico tutto by antonio cassano goodreads - Dec 30 2022

web nov 19 2008 antonio cassano pierluigi pardo contributor 2 95 42 ratings2 reviews il talento più splendente e controverso del calcio italiano era già un idolo per tutti nei vicoli di bari vecchia dove è nato

dico tutto italian edition format kindle amazon fr - Mar 01 2023

web achetez et téléchargez ebook dico tutto italian edition boutique kindle humour amazon fr

dico tutto italian edition api calvertfoundation org - Aug 26 2022

web extracts from italian prose writers for the use of students in the london university dico tutto italian edition downloaded from api calvertfoundation org by guest bond devyn parlate italiano or do you speak italian boydell brewer ltd a fresh look at the beautiful game nme welcome back to the inimitable work of illustrator david squires

amazon it dico tutto cassano antonio pardo pierluigi libri - Sep 07 2023

web antonio cassano il talento più controverso del calcio italiano era già un idolo per tutti nei vicoli di bari vecchia dove è nato perché il mondo lo conoscesse c è voluta però una sera di dicembre del 1999 con un gol rimasto nella memoria di tutti soprattutto se interisti

dice tutto traduzione in inglese esempi italiano reverso context - May 23 2022

web traduzioni in contesto per dice tutto in italiano inglese da reverso context tutto quello che dice tutto ciò che dice dice che tutto mi dice tutto

dico tutto antonio cassano pierluigi pardo google books - Oct 28 2022

web dico tutto antonio cassano pierluigi pardo google books chiedo scusa l ha detto davvero poche volte allora gioca tu invece è proprio da lui antonio cassano il talento più controverso del calcio italiano era già un idolo

dico tutto pdf [peatix](#) - Jul 25 2022

web dico tutto è un ebook di cassano antonio pardo pierluigi pubblicato da rizzoli a 4 along with guides you could savor the moment is dico tutto italian edition by antonio cassano below dico tutto italian edition by antonio cassano is reachable in our text collection an online access to it is set as public so you can get it instantaneously