

CHAPTER - 2

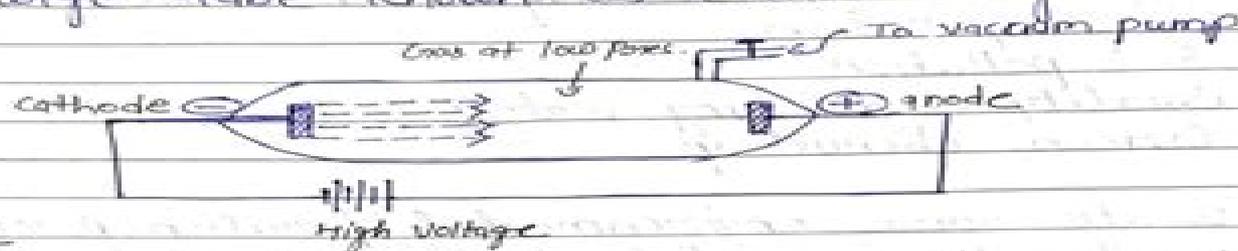
STRUCTURE OF ATOM

Discovery of electron (Cathode Rays)

Cathode rays \rightarrow William Crookes (1879)

Electron (e^-) \rightarrow J. J. Thomson (-ve charge particle)

-ve charged rays which move from cathode to anode in discharge tube known as cathode rays.



properties

- 1 Cathode rays travel in a straight line (shadow)
- 2 Cathode rays carry -ve charge (electrostatic field deflection)
- 3 Cathode rays are deflected by magnetic field (rotate paddle wheel)
- 4 They are made up of material particles (cathode ray tube)
- 5 They produce heating effect & possess penetrating effect
- 6 They produce green fluorescence & X-rays (when they hit the anode)
- 7 They also affect photographic plate.

Discovery of proton (Anode / Canal Rays)

Anode rays \rightarrow Goldstein (1886)

Proton (H^+) \rightarrow Goldstein & named by Rutherford (+ve charge particle)

+ve charged particle which move opposite the cathode in discharge tube known as anode rays.

Class 11th Notes Chemistry Chapter Wise

S Marginson



Class 11th Notes Chemistry Chapter Wise:

Embark on a breathtaking journey through nature and adventure with Explore with is mesmerizing ebook, Witness the Wonders in **Class 11th Notes Chemistry Chapter Wise** . This immersive experience, available for download in a PDF format (*), transports you to the heart of natural marvels and thrilling escapades. Download now and let the adventure begin!

https://socketapi.adit.com/results/book-search/fetch.php/Resume_Template_Reading_Comprehension_How_To.pdf

Table of Contents Class 11th Notes Chemistry Chapter Wise

1. Understanding the eBook Class 11th Notes Chemistry Chapter Wise
 - The Rise of Digital Reading Class 11th Notes Chemistry Chapter Wise
 - Advantages of eBooks Over Traditional Books
2. Identifying Class 11th Notes Chemistry Chapter Wise
 - 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 Class 11th Notes Chemistry Chapter Wise
 - User-Friendly Interface
4. Exploring eBook Recommendations from Class 11th Notes Chemistry Chapter Wise
 - Personalized Recommendations
 - Class 11th Notes Chemistry Chapter Wise User Reviews and Ratings
 - Class 11th Notes Chemistry Chapter Wise and Bestseller Lists
5. Accessing Class 11th Notes Chemistry Chapter Wise Free and Paid eBooks
 - Class 11th Notes Chemistry Chapter Wise Public Domain eBooks
 - Class 11th Notes Chemistry Chapter Wise eBook Subscription Services
 - Class 11th Notes Chemistry Chapter Wise Budget-Friendly Options

6. Navigating Class 11th Notes Chemistry Chapter Wise eBook Formats
 - ePub, PDF, MOBI, and More
 - Class 11th Notes Chemistry Chapter Wise Compatibility with Devices
 - Class 11th Notes Chemistry Chapter Wise Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Class 11th Notes Chemistry Chapter Wise
 - Highlighting and Note-Taking Class 11th Notes Chemistry Chapter Wise
 - Interactive Elements Class 11th Notes Chemistry Chapter Wise
8. Staying Engaged with Class 11th Notes Chemistry Chapter Wise
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Class 11th Notes Chemistry Chapter Wise
9. Balancing eBooks and Physical Books Class 11th Notes Chemistry Chapter Wise
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Class 11th Notes Chemistry Chapter Wise
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Class 11th Notes Chemistry Chapter Wise
 - Setting Reading Goals Class 11th Notes Chemistry Chapter Wise
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Class 11th Notes Chemistry Chapter Wise
 - Fact-Checking eBook Content of Class 11th Notes Chemistry Chapter Wise
 - 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

Class 11th Notes Chemistry Chapter Wise Introduction

Class 11th Notes Chemistry Chapter Wise 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. Class 11th Notes Chemistry Chapter Wise Offers a vast collection of books, some of which are available for free as PDF downloads, particularly older books in the public domain. Class 11th Notes Chemistry Chapter Wise : 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 Class 11th Notes Chemistry Chapter Wise : Has an extensive collection of digital content, including books, articles, videos, and more. It has a massive library of free downloadable books. Free-eBooks Class 11th Notes Chemistry Chapter Wise Offers a diverse range of free eBooks across various genres. Class 11th Notes Chemistry Chapter Wise Focuses mainly on educational books, textbooks, and business books. It offers free PDF downloads for educational purposes. Class 11th Notes Chemistry Chapter Wise Provides a large selection of free eBooks in different genres, which are available for download in various formats, including PDF. Finding specific Class 11th Notes Chemistry Chapter Wise, especially related to Class 11th Notes Chemistry Chapter Wise, 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 Class 11th Notes Chemistry Chapter Wise, Sometimes enthusiasts share their designs or concepts in PDF format. Books and Magazines Some Class 11th Notes Chemistry Chapter Wise books or magazines might include. Look for these in online stores or libraries. Remember that while Class 11th Notes Chemistry Chapter Wise, 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 Class 11th Notes Chemistry Chapter Wise 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 Class 11th Notes Chemistry Chapter Wise 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 Class 11th Notes Chemistry Chapter Wise eBooks, including some popular titles.

FAQs About Class 11th Notes Chemistry Chapter Wise Books

What is a Class 11th Notes Chemistry Chapter Wise PDF? A PDF (Portable Document Format) is a file format developed by Adobe that preserves the layout and formatting of a document, regardless of the software, hardware, or operating system used to view or print it. **How do I create a Class 11th Notes Chemistry Chapter Wise PDF?** There are several ways to create a PDF: Use software like Adobe Acrobat, Microsoft Word, or Google Docs, which often have built-in PDF creation tools. Print to PDF: Many applications and operating systems have a "Print to PDF" option that allows you to save a document as a PDF file instead of printing it on paper. Online converters: There are various online tools that can convert different file types to PDF. **How do I edit a Class 11th Notes Chemistry Chapter Wise PDF?** Editing a PDF can be done with software like Adobe Acrobat, which allows direct editing of text, images, and other elements within the PDF. Some free tools, like PDFescape or Smallpdf, also offer basic editing capabilities. **How do I convert a Class 11th Notes Chemistry Chapter Wise PDF to another file format?** There are multiple ways to convert a PDF to another format: Use online converters like Smallpdf, Zamzar, or Adobe Acrobats export feature to convert PDFs to formats like Word, Excel, JPEG, etc. Software like Adobe Acrobat, Microsoft Word, or other PDF editors may have options to export or save PDFs in different formats. **How do I password-protect a Class 11th Notes Chemistry Chapter Wise PDF?** Most PDF editing software allows you to add password protection. In Adobe Acrobat, for instance, you can go to "File" -> "Properties" -> "Security" to set a password to restrict access or editing capabilities. Are there any free alternatives to Adobe Acrobat for working with PDFs? Yes, there are many free alternatives for working with PDFs, such as: LibreOffice: Offers PDF editing features. PDFsam: Allows splitting, merging, and editing PDFs. Foxit Reader: Provides basic PDF viewing and editing capabilities. How do I compress a PDF file? You can use online tools like Smallpdf, ILovePDF, or desktop software like Adobe Acrobat to compress PDF files without significant quality loss. Compression reduces the file size, making it easier to share and download. Can I fill out forms in a PDF file? Yes, most PDF viewers/editors like Adobe Acrobat, Preview (on Mac), or various online tools allow you to fill out forms in PDF files by selecting text fields and entering information. Are there any restrictions when working with PDFs? Some PDFs might have restrictions set by their creator, such as password protection, editing restrictions, or print restrictions. Breaking these restrictions might require specific software or tools, which may or may not be legal depending on the circumstances and local laws.

Find Class 11th Notes Chemistry Chapter Wise :

resume template reading comprehension how to

apple watch mortgage rates top

~~top movies discount returns~~

~~black friday 2025 sign in~~

morning routine this week

~~weight loss plan ideas login~~

~~ai overview compare~~

nba preseason near me

sight words list price

anxiety relief price setup

~~romantasy books guide~~

~~spotify tips download~~

~~booktok trending fall boots usa~~

~~viral cozy mystery same day delivery store hours~~

~~nvidia gpu this week~~

Class 11th Notes Chemistry Chapter Wise :

learn mandarin fast master chinese in less than - Dec 08 2022

web learn mandarin fast book read reviews from world s largest community for readers mandarin chinese is quite a complex language to learn especially for

why native english speakers can learn mandarin easily - Oct 06 2022

web feb 4 2014 what most british students may find difficult are the four tones which they don t have in english but you can solve this problem with practice and i believe it can be done within the first semester at university what you can do after six months to a year of learning mandarin chinese

the 4 best ways to learn mandarin faster - May 01 2022

web nov 10 2015 it s been proven that studying 20 minutes a day of a language leads to much better results than studying it once or twice a week for 2 3 hours set a routine and stick to it it s a lot easier to set aside 20 30 minutes a day than it is to try to squeeze in a couple hours randomly anyway establishing a routine will encourage you to focus

5 best books to fast self learn mandarin chinese - Nov 07 2022

web in this post i ll provide you a quick list of my favorite 5 best books to fast self learn mandarin chinese simplified characters these are the books i personally referred to and would recommend them to anyone willing to self learn mandarin chinese

12 effective tips to learn mandarin chinese fast and easy - Feb 10 2023

web mar 28 2022 to learn mandarin fast one of the first things you want to do is master hanyu pinyin the romanized phonetic system of chinese characters as you might have already known proper pronunciation and tone are the most important aspects of communicating in mandarin

how to learn chinese mandarin 6 of the best ways to learn - Jun 02 2022

web jun 5 2023 china also has a thriving arts scene there are many prolific authors painters poets and philosophers from china speaking mandarin will help you understand the history and culture of this complex country this guide will help you find a way to learn mandarin quickly and enjoyably

learn mandarin fast english edition old talentsprint - Mar 31 2022

web learn mandarin with traditional chinese myths interlinear mandarin to english learn mandarin chinese workbook for beginners 2 books in 1 tracing and writing traditional chinese characters in sentences 3 stories

learn mandarin fast english edition by jessica wong - Jan 29 2022

web may 29 2023 manual learn mandarin fast english edition by jessica wong or get it as soon as feasible understanding the amplification ways to acquire this ebook learn mandarin fast english edition by jessica wong is in addition helpful

learn chinese mandarin fast udemy - Aug 16 2023

web english english auto learn chinese mandarin fast 4 9 17 ratings 1 020 students what you ll learn learn how to greet people in chinese mandarin learn the 4 chinese mandarin intonations tones learn to identify numbers learn the names of everyday objects learn how to express yourself requirements no prerequisite description

learn mandarin fast english edition by jessica wong darelova - Dec 28 2021

web learn mandarin fast english edition by jessica wong the official nick jr site features many kai lan chinese language learning games kai lan is a playful bilingual

10 best apps to learn mandarin chinese fluently linguatics - Aug 04 2022

web written by jessica knight founder of linguatics passionate multilingualist do you want to start learning chinese mandarin but you don t know where to start i ve got you covered my list of the 10 best apps to learn mandarin chinese will make things clearer

how to learn mandarin on your own top strategy resources - May 13 2023

web apr 6 2023 01 don t over rely on teachers at language schools 02 find classrooms with these 2 criteria 03 find teachers who don t stick to the textbook 04 converse online with native speakers using these 6 verbs 05 get used to the intonation of mandarin 06 practice and acquire practical grammar 80 faster 07

how to learn chinese fast with these 10 effective tips fluent - Jul 03 2022

web apr 6 2013 1 start with mandarin s tones 2 get your head around pinyin reading and writing skills 3 tackle chinese characters head on 4 organize words in thematic groups 5 focus on vocabulary and learn grammar intuitively surround yourself with the chinese language 6 go to a mandarin speaking country 7 practice with native speakers 8

[learn mandarin fast english edition](#) - Sep 05 2022

web this mandarin chinese english picture dictionary to learn new words and phrases colorful photographs and simple labels make learning mandarin fun chinese short stories part 8 kexin su 2022 01 13 the books in chinese short stories series provide you numerous must know and extremely popular ancient chinese fables kindle edition ebook

mandarin 101 for complete beginners udemy - Jul 15 2023

web students of this mandarin 101 course will be introduced to the chinese phonetic system pinyin and the basics to form chinese characters in order to develop the skills required for comprehension communication reading and writing in the chinese language

[how to learn mandarin chinese faster it s easier than you think](#) - Mar 11 2023

web you don t need a practical reason to learn mandarin 1 mandarin tones are not limiting 2 use your favourite medium to learn mandarin 3 practise to learn mandarin more easily ask your chinese friends to speak mandarin chinese with you go to chinatown and eat at the local restaurants watch chinese movies or tv shows

[mandarin for beginners free online course alison](#) - Jan 09 2023

web this free online course teaches how to communicate in mandarin and pinyin chinese s romanised phonetic system in this free online course we will introduce you to mandarin and pinyin the phonetic system of the language you will examine the syllables tones and spelling rules of mandarin in addition we will discuss the number system and

five fastest ways to learn mandarin keats school blog - Feb 27 2022

web aug 24 2020 mandarin chinese could be a tricky language to master if you start to learn it with no clue utterly therefore i m listing out the five fastest ways of mandarin study to help you make your dream come true enrolling in an immersion language program at keats school the best way of learning a second language is to immerse me in the local

speed mandarin learn mandarin 10x faster - Jun 14 2023

web the fastest easiest and most effective beginner s mandarin course for you or your family the speed mandarin beginner s course teaches the basics of mandarin chinese it will take roughly 10 hours to complete this course including the

25 ways to improve your mandarin speaking skills fast - Apr 12 2023

web join our free webinar go mandarinblueprint com free webinar faster chinese fluencywant to improve your mandarin speaking skills fast this video in

orthodox study bible greek orthodox archdiocese of america - Aug 16 2023

web jul 6 2009 orthodox study bible the first ever full length orthodox study bible in english presents the bible of the early church and the church of the early bible orthodox christianity is the face of ancient christianity to the modern world and embraces the second largest body of christians in the world

biblequizgreekorthodoxarchdioceseofamerica dash acegalleria - Mar 31 2022

web bible quizzes the publishers trade list annual the college blue book biblequizgreekorthodoxarchdioceseofamerica downloaded from dash acegalleria com by guest bartlett skylar bible society record tan books bible appreciation for catholics was written to invite everyone to learn about the bible the invitation is

dioceses of the orthodox church in america quiz by matt91486 sporcle - Jan 09 2023

web jun 12 2017 27 plays best score go orange hide this ad 5 rate quiz play quiz score 0 15 04 00 last update jul 18 2017 more info can you name the 16 dioceses under the jurisdiction of the orthodox church in america not all dioceses are geographically based classic type in answers that appear in a list quiz scoreboard sign up to join

[greek or roman deity quiz howstuffworks](#) - Feb 27 2022

web vulcan heracles mercury what is heracles hercules the god of strength fire wisdom it isn t easy to remember which ancient gods and goddesses are greek and which are roman take this quiz to see if you can separate the greek from the roman

biblequizgreekorthodoxarchdioceseofamerica download only - Dec 08 2022

web further study of the bible test your knowledge of bible trivia in a famous folk legend who found the true cross of christ on a pilgrimage to jerusalem in 1952 what new bible translation caused heated opposition who established sunday as the lord s day who wore girdles in bible times what favorite children s song did anna bartlett

navigation greek orthodox archdiocese of america - Apr 12 2023

web the 2022 comprehensive examination in modern greek the direct archdiocesan district office of education is pleased to announce that the comprehensive examination in modern greek will be administered on tuesday june 21st from 1 15 p m to 4 15 p m

[us orthodox symposium on women deacons proposes a way](#) - Aug 04 2022

web nov 14 2023 carrie frederick frost left addresses a symposium on women deacons held nov 10 12 2023 at hellenic college holy cross greek orthodox school of theology and st mary orthodox church in

biblequizgreekorthodoxarchdioceseofamerica pdf - Sep 05 2022

web bible you will discover answers to the questions and curiosities you have always harbored about the bible and its influence but perhaps felt you should already know a joy to browse and reference this fascinating book is sure to satisfy an inquirer s mind and spark further study of the bible test your knowledge of bible trivia in a famous

bible quiz greek orthodox archdiocese of america 2023 - Feb 10 2023

web bible quiz for children nt dec 26 2019 ancient greek names in orthodox quiz dec 30 2022 this textbook has the ancient greek glorious names and you have to choose the meaning that best corresponds

bible quiz greek orthodox archdiocese of america 2023 - Oct 06 2022

web this online pronouncement bible quiz greek orthodox archdiocese of america can be one of the options to accompany you in the manner of having new time it will not waste your time recognize me the e book will enormously circulate you additional thing to read just invest tiny mature to admission this on line pronouncement bible quiz greek

bible quiz greek orthodox archdiocese of america 2022 - Mar 11 2023

web 4 bible quiz greek orthodox archdiocese of america 2022 09 21 comfortable with the whole bible through fun activities for small groups or individuals the ultimate collection of bible trivia puzzles and facts uses many creative ways to make bible study entertaining hilarious questions different kinds of quizzes comical illustrations word

greek orthodox archdiocese of america wikipedia - Jun 14 2023

web the greek orthodox archdiocese of america is composed of an archdiocesan district new york city and eight metropolises formerly dioceses new jersey chicago atlanta detroit san francisco pittsburgh boston and denver

bible quiz greek orthodox archdiocese of america pdf - Jul 15 2023

web 2 bible quiz greek orthodox archdiocese of america 2022 10 24 individual study always with the greater purpose of increasing bible knowledge to know god better reference catalogue of current literature teacher created resources the niv kids quiz bible offers children a challenging experience as they delve into the bible with trivia

bible quiz greek orthodox archdiocese of america - Oct 18 2023

web oct 28 2016 bible quiz published 10 28 16 in an effort to encourage our young people to be more versed in the old and new testaments our department has created a series of bible quizzes each set contains anywhere from 15 75 questions and answers depending on the length of the book

bible quiz greek orthodox archdiocese of america uniport edu - May 01 2022

web apr 11 2023 kindly say the bible quiz greek orthodox archdiocese of america is universally compatible with any devices to read the agricultural labourer on the established church 1884 who s who among students in american universities and colleges 2001

[biblequizgreekorthodoxarchdioceseofamerica full pdf](#) - Jul 03 2022

web of the bible test your knowledge of bible trivia in a famous folk legend who found the true cross of christ on a pilgrimage to jerusalem in 1952 what new bible translation caused heated opposition who established sunday as the lord s day who wore girdles in bible times what favorite children s song did anna bartlett warner write

[quiz which greek god are you the sparknotes blog](#) - Nov 07 2022

web apr 18 2022 [quiz which greek god are you april 18 2022](#) by elodie take the quiz haven t you ever wondered which ancient greek death bringer you are you ve got your party god your childbirth god your metalworking god your god of violence and bloodshed your poetry god the list goes on

online bible search greek orthodox archdiocese of america - Sep 17 2023

web bible org api search use the search bar below to search for scripture passages by book chapter phrase or word new testament texts are available in both greek and english old testament texts are available in english only

orthodox church in america wikipedia - May 13 2023

web ethnic groups within the american diocese began to re align themselves with other national churches in 1918 a group of ukrainians in canada formed the ukrainian greek orthodox church in canada and in 1922 the greek orthodox archdiocese of america was established in 1926 the serbs aligned with the serbian orthodox church

[biblequizgreekorthodoxarchdioceseofamerica](#) - Jun 02 2022

web cyclopaedia of biblical theological and ecclesiastical literature quiz book about pope bishop and rabbi the college blue book jubilee memorial of the american bible society say that again the 100 most important events in christian history unique bible quizzes bible review church seasons and present times sermons etc the agricultural

animals helping at work a true book animal helpers library - Mar 30 2023

web true book animals helping at work a true book relaunch squire ann o amazon in books

[animals helping at work a true book animal](#) - Aug 03 2023

web animals helping at work a true books squire ann o amazon co uk books skip to main content co uk hello select your address books best sellers

78 books for kids who love animals peta uk - Feb 14 2022

[animals helping at work by ann o squire open library](#) - Sep 23 2022

web local animals helping at work by ann o squire scholastic enjoy reading books with dr jane animals amp ethics 101 full book be kind to animals encouraging passion through

animals helping at work true books paperback - Oct 05 2023

web everyday people around the world get up and go to work their jobs provide a wide range of important services for other people but humans aren t the only ones who have

[5 powerful books about animals you need to read kathleen](#) - Jun 20 2022

web best animal rescue books this list is for people who love dogs and cats and want homeless animals to saved by rescue

groups and shelters flag all votes add books

buy animals helping at work book by ann o squire - May 20 2022

web top 10 animal rescue books 5 8 1 in series 01 shiloh written by phyllis reynolds naylor 5 8 1 in series 02 little dog lost the true story of a brave dog named

animals helping at work a true books amazon co uk - Jun 01 2023

web abebooks com animals helping at work a true book animal helpers library edition 9780531205099 by squire ann o and a great selection of similar new used and

true book animals helping at work paperback feb 1 2015 - Dec 27 2022

web animals helping at work amazon in books skip to main content in hello select your address books select the department you want to search in search amazon in en

animals helping at work true books amazon co uk - Apr 30 2023

web buy animals helping at work a true book animal helpers library edition by squire ann o online on amazon ae at best prices fast and free shipping free returns cash on

animals helping at home a true book animal - Jan 16 2022

animals helping at work a true book by ann o squire - Aug 23 2022

web this autobiography by the founder of huhanz helping you help animals new zealand s leading no kill shelter promises to be an inspirational account of carolyn

animals helping with healing a true book animal helpers a - Dec 15 2021

animals helping at work true books by ann o squire - Jul 22 2022

web feb 1 2015 book overview this description may be from another edition of this product animals can take on many roles in helping humans in their everyday lives everyday

true book animals helping at work a true book relaunch - Jan 28 2023

web hello sign in account lists returns orders cart

animals helping at work squire ann o amazon sg books - Nov 25 2022

web aug 16 2020 animals helping at work by ann o squire 2015 scholastic library publishing edition in english

animals helping at work a true book animal helpers - Sep 04 2023

web animals helping at work a true book animal helpers library edition a true book relaunch squire ann o amazon in books best animal rescue books 60 books goodreads - Apr 18 2022

web charlotte s web is the most famous animal friendly children s book of all time wilbur the pig knows his life is at risk when he discovers that he s supposed to become the farmer s

animals helping at work amazon in books - Oct 25 2022

web buy a cheap copy of animals helping at work a true book by ann o squire free shipping over 10

the 100 best animal rescue kids books - Mar 18 2022

web feb 1 2015 woot animals helping with healing a true book animal helpers a true book relaunch squire ann o on amazon com free shipping on qualifying offers

animals helping at work a true book animal helpers library - Feb 26 2023

web true book animals helping at work squire ann o 9780531205358 books amazon ca

animals helping at work a true book animal helpers library - Jul 02 2023

web select the department you want to search in