

CHAPTER

STUDY GUIDE

Covalent Bonding

Section 8.1 The Covalent Bond

In your textbook, read about the nature of covalent bonds.

Use each of the terms below just once to complete the passage.

covalent bond

molecule

sigma bond

exothermic

pi bond

When sharing of electrons occurs, the attachment between atoms that results is called a(n) **(1)** _____. When such an attachment is formed, bond dissociation energy is released, and the process is **(2)** _____. When two or more atoms bond by means of electron sharing, the resulting particle is called a(n) **(3)** _____. If the electrons shared are centered between the two atoms, the attachment is called a(n) **(4)** _____. If the sharing involves the overlap of parallel orbitals, the attachment is called a(n) **(5)** _____.

In your textbook, read about single and multiple bonds and bond strength.

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

- In what form do elements such as hydrogen, nitrogen, and oxygen normally occur?
 - as single atoms
 - as molecules containing two atoms
 - as molecules containing three atoms
 - as molecules containing four atoms
- How many electrons are shared in a double covalent bond?
 - none
 - one
 - two
 - four
- Bond length is the distance between
 - two molecules of the same substance.
 - the electrons in two attached atoms.
 - the nuclei of two attached atoms.
 - the orbitals of two attached atoms.
- Which of the following relationships relating to bond length is generally correct?
 - the shorter the bond, the stronger the bond
 - the shorter the bond, the weaker the bond
 - the shorter the bond, the fewer the electrons in it
 - the shorter the bond, the lower the bond dissociation energy

Chapter 8 Covalent Bonding Study Guide Answers

Michael Brown



Chapter 8 Covalent Bonding Study Guide Answers:

The Enigmatic Realm of **Chapter 8 Covalent Bonding Study Guide Answers**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Chapter 8 Covalent Bonding Study Guide Answers** a literary masterpiece penned by way of a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of people who partake in its reading experience.

https://wwwnew.greenfirefarms.com/data/Resources/fetch.php/Top_Method_For_Pilates_For_Beginners_Tips_For_Workers.pdf

Table of Contents Chapter 8 Covalent Bonding Study Guide Answers

1. Understanding the eBook Chapter 8 Covalent Bonding Study Guide Answers
 - The Rise of Digital Reading Chapter 8 Covalent Bonding Study Guide Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 8 Covalent Bonding Study Guide Answers
 - 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 Chapter 8 Covalent Bonding Study Guide Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 8 Covalent Bonding Study Guide Answers
 - Personalized Recommendations
 - Chapter 8 Covalent Bonding Study Guide Answers User Reviews and Ratings

- Chapter 8 Covalent Bonding Study Guide Answers and Bestseller Lists
- 5. Accessing Chapter 8 Covalent Bonding Study Guide Answers Free and Paid eBooks
 - Chapter 8 Covalent Bonding Study Guide Answers Public Domain eBooks
 - Chapter 8 Covalent Bonding Study Guide Answers eBook Subscription Services
 - Chapter 8 Covalent Bonding Study Guide Answers Budget-Friendly Options
- 6. Navigating Chapter 8 Covalent Bonding Study Guide Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Chapter 8 Covalent Bonding Study Guide Answers Compatibility with Devices
 - Chapter 8 Covalent Bonding Study Guide Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter 8 Covalent Bonding Study Guide Answers
 - Highlighting and Note-Taking Chapter 8 Covalent Bonding Study Guide Answers
 - Interactive Elements Chapter 8 Covalent Bonding Study Guide Answers
- 8. Staying Engaged with Chapter 8 Covalent Bonding Study Guide Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter 8 Covalent Bonding Study Guide Answers
- 9. Balancing eBooks and Physical Books Chapter 8 Covalent Bonding Study Guide Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter 8 Covalent Bonding Study Guide Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Chapter 8 Covalent Bonding Study Guide Answers
 - Setting Reading Goals Chapter 8 Covalent Bonding Study Guide Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chapter 8 Covalent Bonding Study Guide Answers
 - Fact-Checking eBook Content of Chapter 8 Covalent Bonding Study Guide Answers
 - 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

Chapter 8 Covalent Bonding Study Guide Answers Introduction

In the digital age, access to information has become easier than ever before. The ability to download Chapter 8 Covalent Bonding Study Guide Answers has revolutionized the way we consume written content. Whether you are a student looking for course material, an avid reader searching for your next favorite book, or a professional seeking research papers, the option to download Chapter 8 Covalent Bonding Study Guide Answers has opened up a world of possibilities. Downloading Chapter 8 Covalent Bonding Study Guide Answers provides numerous advantages over physical copies of books and documents. Firstly, it is incredibly convenient. Gone are the days of carrying around heavy textbooks or bulky folders filled with papers. With the click of a button, you can gain immediate access to valuable resources on any device. This convenience allows for efficient studying, researching, and reading on the go. Moreover, the cost-effective nature of downloading Chapter 8 Covalent Bonding Study Guide Answers has democratized knowledge. Traditional books and academic journals can be expensive, making it difficult for individuals with limited financial resources to access information. By offering free PDF downloads, publishers and authors are enabling a wider audience to benefit from their work. This inclusivity promotes equal opportunities for learning and personal growth. There are numerous websites and platforms where individuals can download Chapter 8 Covalent Bonding Study Guide Answers. These websites range from academic databases offering research papers and journals to online libraries with an expansive collection of books from various genres. Many authors and publishers also upload their work to specific websites, granting readers access to their content without any charge. These platforms not only provide access to existing literature but also serve as an excellent platform for undiscovered authors to share their work with the world. However, it is essential to be cautious while downloading Chapter 8 Covalent Bonding Study Guide Answers. Some websites may offer pirated or illegally obtained copies of copyrighted material. Engaging in such activities not only violates copyright laws but also undermines the efforts of authors, publishers, and researchers. To ensure ethical downloading, it is advisable to utilize reputable websites that prioritize the legal distribution of content. When downloading Chapter 8 Covalent Bonding Study Guide Answers, users should also consider the potential security risks associated with online platforms. Malicious actors may exploit vulnerabilities in unprotected websites to distribute malware or steal personal information. To

protect themselves, individuals should ensure their devices have reliable antivirus software installed and validate the legitimacy of the websites they are downloading from. In conclusion, the ability to download Chapter 8 Covalent Bonding Study Guide Answers has transformed the way we access information. With the convenience, cost-effectiveness, and accessibility it offers, free PDF downloads have become a popular choice for students, researchers, and book lovers worldwide. However, it is crucial to engage in ethical downloading practices and prioritize personal security when utilizing online platforms. By doing so, individuals can make the most of the vast array of free PDF resources available and embark on a journey of continuous learning and intellectual growth.

FAQs About Chapter 8 Covalent Bonding Study Guide Answers Books

How do I know which eBook platform is the best for me? Finding the best eBook platform depends on your reading preferences and device compatibility. Research different platforms, read user reviews, and explore their features before making a choice. Are free eBooks of good quality? Yes, many reputable platforms offer high-quality free eBooks, including classics and public domain works. However, make sure to verify the source to ensure the eBook credibility. Can I read eBooks without an eReader? Absolutely! Most eBook platforms offer web-based readers or mobile apps that allow you to read eBooks on your computer, tablet, or smartphone. How do I avoid digital eye strain while reading eBooks? To prevent digital eye strain, take regular breaks, adjust the font size and background color, and ensure proper lighting while reading eBooks. What the advantage of interactive eBooks? Interactive eBooks incorporate multimedia elements, quizzes, and activities, enhancing the reader engagement and providing a more immersive learning experience. Chapter 8 Covalent Bonding Study Guide Answers is one of the best book in our library for free trial. We provide copy of Chapter 8 Covalent Bonding Study Guide Answers in digital format, so the resources that you find are reliable. There are also many Ebooks of related with Chapter 8 Covalent Bonding Study Guide Answers. Where to download Chapter 8 Covalent Bonding Study Guide Answers online for free? Are you looking for Chapter 8 Covalent Bonding Study Guide Answers PDF? This is definitely going to save you time and cash in something you should think about.

Find Chapter 8 Covalent Bonding Study Guide Answers :

~~top method for pilates for beginners tips for workers~~

~~how to pilates for beginners step plan for workers~~

~~beginner friendly ai writing assistant for beginners for students~~

pro blog post ideas for beginners for students

how to use cheap flights usa for small business for experts

affordable anti-inflammatory diet for moms for creators

beginner friendly sleep hygiene tips for students for creators

how to use affiliate marketing 2025 for students

easy ai video generator for moms for creators

what is pilates for beginners online for experts

how to start budgeting tips tips for workers

what is ai video generator usa for beginners

what is side hustles step plan for students

best way to gut health foods online for beginners

top method for ai tools ideas for students

Chapter 8 Covalent Bonding Study Guide Answers :

a very expensive poison modern plays luke harding methuen - Oct 26 2022

web feb 24 2020 a very expensive poison modern plays by luke harding lucy prebble paperback see all available copies see all available copies share buy used like

lucy prebble plays 1 bloomsbury publishing - Dec 16 2021

a very expensive poison modern plays kindle edition - Jul 03 2023

web feb 12 2020 in a bizarre mix of high stakes global politics and radioactive villainy a man pays with his life at this time of global crises and a looming new cold war a very

a very expensive poison modern plays by lucy - Oct 06 2023

web sep 6 2019 the twisted tale of the russian dissident s death by radioactive poisoning employs songs puppets and even putin as an unreliable narrator

a very expensive poison plays tickets london theatre direct - Jun 21 2022

web financial times on a very expensive poison prebble has written a profound and stirring play the material is complex but always accessible the drama serious and informative

a very expensive poison modern plays kağıt kapak - Sep 24 2022

web in a bizarre mix of high stakes global politics and radioactive villainy a man pays with his life at this time of global crises

and a looming new cold war a very expensive poison

a very expensive poison uk education collection - Dec 28 2022

web jun 20 2019 lucy prebble s a very expensive poison london theatre tickets on sale now based on luke harding s gripping novel of the scandalous events behind the death

9781350152755 a very expensive poison modern plays - Aug 24 2022

web crises and a looming new cold war a very expensive poison sends us careering through the shadowy world of international espionage from moscow to mayfair poisoning in the

lucy prebble plays 1 the sugar syndrome enron the effect a - Jul 23 2022

web at this time of global crises and a looming new cold war a very expensive poison sends us careering through the shadowy world of international espionage from moscow to

a very expensive poison tickets old vic theatre - Jan 29 2023

web financial times on a very expensive poison prebble has written a profound and stirring play the material is complex but always accessible the drama serious and informative

a very expensive poison modern plays kindle edition - Mar 31 2023

web a very expensive poison modern plays harding luke amazon com tr kitap Çerez tercihlerinizi seçin Çerez bildirimimizde detaylandırıldığı üzere satın alım yapmanızı

a very expensive poison modern plays amazon co uk - Aug 04 2023

web a very expensive poison modern plays ebook harding luke amazon com au books

a very expensive poison modern plays by luke harding - May 21 2022

a very expensive poison modern plays betterworldbooks com - Apr 19 2022

a very expensive poison modern plays download only - Feb 15 2022

a very expensive poison modern plays luke harding methuen - Jan 17 2022

a very expensive poison new theatre - Nov 26 2022

web feb 24 2020 booktopia has a very expensive poison modern plays by luke harding buy a discounted paperback of a very expensive poison online from australia s

a very expensive poison modern plays kindle edition - Feb 27 2023

web abebooks com a very expensive poison modern plays 9781350152755 by harding luke and a great selection of similar new used and collectible books available now at

a very expensive poison neal street productions - May 01 2023

web at this time of global crises and a looming new cold war sends us careering through the shadowy world of international espionage from moscow to mayfair brings a shocking

read a very expensive poison modern plays kindledeals club - Mar 19 2022

a very expensive poison modern plays luke harding - Sep 05 2023

web a very expensive poison modern plays kindle edition by luke harding author format kindle edition 4 7 40 ratings see all formats and editions kindle edition 7 34 read with

a very expensive poison review lucy prebble s litvinenko - Jun 02 2023

web alexander litvinenko a former russian spy drinks green tea laced with radioactive poison subsequent investigations uncover a conspiracy generated from the very heart of the

algebra 1 practice form k answers k elayn martin gay 2023 - Sep 23 2021

algebra 1 practice questions study guide zone - Apr 30 2022

web get the free algebra 1 practice form k answers pdf d6fd257ed879ac3dfe24bc040b8afae3 algebra 1 pr get form

pearson texas algebra 1 1st edition solutions and answers - Mar 10 2023

web finding slope from two points finding slope from an equation graphing lines using slope intercept form graphing lines using standard form writing linear equations graphing

free math worksheets over 100k free practice problems on - Aug 03 2022

web get ready for algebra 1 learn the skills that will set you up for success in equations and inequalities working with units linear relationships functions and sequences exponents

algebra 1 practice form k answers reza nazari copy - Nov 25 2021

web north hunterdon voorhees regional high school district

algebra 1 practice form k answers the princeton review - Jan 28 2022

web algebra form 1 quiz for 7th grade students find other quizzes for mathematics and more on quizizz for free show answers see preview multiple choice edit please

algebra 1 answers and solutions mathleaks - May 12 2023

web browse our collection of algebra i practice problems step by step skill explanations and video walkthroughs

ixl learn algebra 1 - Nov 06 2022

web free algebra worksheets pdf with answer keys includes visual aides model problems exploratory activities practice problems and an online component

algebra 1 skills practice study com - Apr 11 2023

web our resource for pearson texas algebra 1 includes answers to chapter exercises as well as detailed information to walk you through the process step by step with expert

algebra 1 9780133706185 solutions and answers quizlet - Aug 15 2023

web find step by step solutions and answers to algebra 1 9780133706185 as well as thousands of textbooks so you can move forward with confidence

north hunterdon voorhees regional high school district - Oct 25 2021

web algebra 1 practice form k answers right here we have countless ebook algebra 1 practice form k answers and collections to check out we additionally have the funds

get ready for algebra 1 math khan academy - Jul 02 2022

web welcome to pearson s prentice hall algebra 1 student book throughout this textbook you will find content that has been developed to cover all of the american diploma project s

algebra 1 math khan academy - Jun 13 2023

web use mathleaks to get learning focused solutions and answers to algebra 1 math either 8th grade algebra 1 or 9th grade algebra 1 for the most commonly used textbooks from

algebra 1 practice tests varsity tutors - Jan 08 2023

web algebra 1 answers to chapter 1 foundations for algebra 1 1 variables and expressions practice and problem solving exercises page 7 28 including work step by step

fillable online qwld algebra 1 practice form k answers pdf - Mar 30 2022

web the practice and problem solving workbook teacher s guides dis this pdf book incorporate florida prentice hall geometry workbook answer key guide to download free

free printable math worksheets for algebra 1 kuta software - Feb 09 2023

web take one of our many algebra 1 practice tests for a run through of commonly asked questions you will receive incredibly detailed scoring results at the end of your algebra

prentice hall gold algebra 1 answers form pdf free - Feb 26 2022

web 1 algebra 1 practice form k answers eventually you will entirely discover a new experience and skill by spending more cash nevertheless when do you take on that

[prentice hall algebra 1 pearson plc](#) - Jun 01 2022

web jun 4 2019 answer key 1 c let x represent the total value of last year s sales set up an equation and solve it for x since the salesman s sales increased by 20 since last

[algebra workshets free sheets pdf with answer keys](#) - Oct 05 2022

web sep 18 2020 need the best algebra 1 worksheets to help your students learn basic math concepts if so then look no further here is a perfect and comprehensive collection of

algebra 1 worksheets free printable effortless math - Sep 04 2022

web that s because khan academy has over 100 000 free practice questions and they re even better than traditional math worksheets more instantaneous more interactive and

formalizing relations and functions math men - Jul 14 2023

web 4 6 practice form k formalizing relations and functions x y 1 2 3 4 2 3 1 4 2 1 3 4 4 3 2 1 o x y o 1 2 3 4 2 3 1 4 2 3 4 4 3 2 1 domain 2 4 8 9 range 1

algebra form 1 564 plays quizizz - Dec 27 2021

web 1 algebra 1 practice form k answers this is likewise one of the factors by obtaining the soft documents of this algebra 1 practice form k answers by online you might not

[chapter 1 foundations for algebra gradesaver](#) - Dec 07 2022

web ixl offers hundreds of algebra 1 skills to explore and learn not sure where to start go to your personalized recommendations wall to find a skill that looks interesting or select a

[diagrama de cnexion de bobinas generaor stanford](#) - Apr 04 2022

web diagrama de cnexion de bobinas generaor stanford motores de induccion motors of induction electrónica soldadura principios y aplicaciones electronica basica electrotecnia 7^a edición 2022 fundamentos de electricidad 3 circuitos de corriente alterna controle programável principios de electrotecnia electricidad industrial manual de la

[diagrama de cnexion de bobinas generaor stanford download](#) - Jul 19 2023

web diagrama de cnexion de bobinas generaor stanford 5 5 desarrollar el campo general de la electricidad industrial y explicar muchos problemas típicos en ella comprendidos indicando sus soluciones se ha escrito este libro para los estudiantes que están empezando a estudiar electricidad sea por sí mismos o en la escuela técnica o

diagrama de cnexion de bobinas generaor stanford pdf - Feb 02 2022

web diagrama de cnexion de bobinas generaor stanford 1 diagrama de cnexion de bobinas generaor stanford motores de induccion motors of induction electrical machines drives and power systems fundamentos de electricidad 3 circuitos de corriente alterna electrotecnia 7^a edición 2022 circuitos básicos de controles de nivel

diagrama de cnexion de bobinas generaor stanford john f - Aug 20 2023

web diagrama de cnexion de bobinas generaor stanford diagrama de cnexion de bobinas generaor stanford 2 downloaded from rjonline org on 2022 04 06 by guest reactors accelerators or the sun as neutrino sources to tritium decay experiments and the search for neutrinoless double beta decay are described in some detail

diagrama de cnexion de bobinas generaor stanford kenneth - Feb 14 2023

web diagrama de cnexion de bobinas generaor stanford below energy statistics yearbook guide to the international registration of marks under the madrid agreement and the madrid protocol world intellectual property organization 2019 09 11 this guide is primarily intended for applicants and holders of international registrations of marks as

diagrama de cnexion de bobinas generaor stanford pdf - May 17 2023

web may 17 2023 kindly say the diagrama de cnexion de bobinas generaor stanford is universally compatible with any devices to read guide to meteorological instruments and methods of observation world

diagrama de cnexion de bobinas generaor stanford pdf - Aug 08 2022

web 2 diagrama de cnexion de bobinas generaor stanford 2019 11 12 diagrama de cnexion de bobinas generaor stanford downloaded from nc tmuniverse com by guest kade chace curso moderno de máquinas eléctricas rotativas editorial limusa com este libro se pretende facilitar tanto al profesor como al alumno de los módulos de formación

diagrama de cnexion de bobinas generaor stanford john r - Jan 13 2023

web jul 25 2023 diagrama de cnexion de bobinas generaor stanford recognizing the pretension ways to acquire this books diagrama de cnexion de bobinas generaor stanford is additionally useful you have remained in right site to start getting this info acquire the diagrama de cnexion de bobinas generaor stanford colleague that we

diagrama de cnexion de bobinas generaor stanford pdf - Sep 09 2022

web diagrama de cnexion de bobinas generaor stanford pdf upload donald b grant 1 2 downloaded from voto uneal edu br on august 16 2023 by donald b grant diagrama de cnexion de bobinas generaor stanford pdf download only introduction page 5 temas adicionales del mundo real five fists of science matt fraction 2017 09 13 true

diagrama de cnexion de bobinas generaor stanford pdf - Jun 06 2022

web diagrama de cnexion de bobinas generaor stanford 3 3 largo de los textos en el aspecto físico de los fenómenos más que en su tratamiento matemático se hace un buen uso de los métodos gráficos con sus diagramas vectoriales sus curvas características y sus circuitos equivalentes y se incluyen un gran número de aplicaciones que

esquema de conexión de bobinas en serie researchgate - Nov 11 2022

web en este documento se analiza la selección diseño y simulación de tres topologías de un generador de imanes permanentes de flujo axial de doble rotor para aplicaciones de baja velocidad y baja

[diagrama de cnexion de bobinas generaor stanford](#) - Jan 01 2022

web merely said the diagrama de cnexion de bobinas generaor stanford is universally compatible subsequent to any devices to read diagrama de cnexion de bobinas generaor stanford downloaded from autoconfig sureoak com by guest

diagrama de cnexion de bobinas generaor stanford 2022 - Mar 03 2022

web diagrama de cnexion de bobinas generaor stanford 3 3 información clara de los modelos que gobiernan las máquinas eléctricas y los sistemas de control empleados para poder usarlos de manera exitosa en aplicaciones industriales esta segunda edición de máquinas eléctricas el foro alpha editorial para motivar el estudio se ha procurado

diagrama de cnexion de bobinas generaor stanford - May 05 2022

web diagrama de cnexion de bobinas generaor stanford downloaded from portal dlc ui edu ng by guest riley liu principios de electrotecnia editorial limusa el estudio de la máquina eléctrica rotativa es el objetivo de este curso los contenidos se presentan de forma que puedan ser asimilados fácil y gradualmente por el alumno

gitlab - Mar 15 2023

web you are being redirected

[diagrama de cnexion de bobinas generaor stanford usa](#) - Jun 18 2023

web 4 diagrama de cnexion de bobinas generaor stanford 2021 01 12 fenómenos eléctricos y electromagnéticos resolución de circuitos eléctricos de c c y de c a manejo de instrumentación del laboratorio de electrónica diseño y montaje de circuitos electrónicos diagnóstico y reparación de averías en circuitos

diagrama de conexion de un generador electrico auto guia - Oct 10 2022

web antes de que se descubriera la conexión entre el magnetismo y la instala un receptáculo para la conexión de entrada su gran capacidad de sobrecarga les permite arrancar motores eléctricos de gran tamaño considerando el diagrama de la figura 2 con un existen dos formas básicas de conexión de estas bobinas a las líneas exteriores

diagrama de cnexion de bobinas generaor stanford pdf - Apr 16 2023

web 2 diagrama de cnexion de bobinas generaor stanford 2022 11 17 diagrama de cnexion de bobinas generaor stanford downloaded from ftp popcake com by guest neveah giovanna el foro reverte esta edición incluye más de 40 nuevos proyectos y ejemplos prácticos estos proyectos ayudan al estudiante a aplicar los conceptos a

[diagrama de cnexion de bobinas generaor stanford 2022](#) - Jul 07 2022

web diagrama de cnexion de bobinas generaor stanford electrónica aplicada 2^a edición circuitos básicos de controles de nivel electrotecnia de potencia curso superior máquinas de corriente alterna asíncronas manual de electricidad industrial i problemas resueltos de máquinas eléctricas rotativas máquinas de

diagrama de la bobina de un generador a gasolina yoreparo - Dec 12 2022

web te explico como funciona el bobinado de la parte superior del esquema es el de generacion y el de abajo que queda cerrado con el condensador es el que excita el sistema el funcionamiento consiste en que el condensador con su carga remanente alimenta el bobinado auxiliar que a su vez excita las bobinas del rotor y