

## 4th Class Power Engineering Unit A12: Elements of Boiler Systems Questions and Answers 100% Pass

In falling shot cleaning, iron shot or pellets, \_\_\_\_\_ mm in diameter fall by gravity:

Select one:

- a. 6
- b. 9
- c. 3
- d. 12 ✓✓a

With this system, not electrical power is required to feed make-up water to the boiler:

Select one:

- a. gravity return system
- b. pump return system
- c. low flow return system
- d. high side return system ✓✓a

# Power Engineering 4th Class Questions

**Sabine Zange**



**Power Engineering 4th Class Questions:**

Recognizing the pretension ways to acquire this ebook **Power Engineering 4th Class Questions** is additionally useful. You have remained in right site to start getting this info. get the Power Engineering 4th Class Questions join that we allow here and check out the link.

You could purchase lead Power Engineering 4th Class Questions or get it as soon as feasible. You could quickly download this Power Engineering 4th Class Questions after getting deal. So, as soon as you require the books swiftly, you can straight acquire it. Its as a result very simple and in view of that fats, isnt it? You have to favor to in this look

<https://db1.greenfirefarms.com/book/uploaded-files/index.jsp/How%20To%20Use%20Us%20National%20Parks%202025%20For%20Students%203075.pdf>

## **Table of Contents Power Engineering 4th Class Questions**

1. Understanding the eBook Power Engineering 4th Class Questions
  - The Rise of Digital Reading Power Engineering 4th Class Questions
  - Advantages of eBooks Over Traditional Books
2. Identifying Power Engineering 4th Class Questions
  - 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 Power Engineering 4th Class Questions
  - User-Friendly Interface
4. Exploring eBook Recommendations from Power Engineering 4th Class Questions
  - Personalized Recommendations
  - Power Engineering 4th Class Questions User Reviews and Ratings
  - Power Engineering 4th Class Questions and Bestseller Lists

5. Accessing Power Engineering 4th Class Questions Free and Paid eBooks
  - Power Engineering 4th Class Questions Public Domain eBooks
  - Power Engineering 4th Class Questions eBook Subscription Services
  - Power Engineering 4th Class Questions Budget-Friendly Options
6. Navigating Power Engineering 4th Class Questions eBook Formats
  - ePub, PDF, MOBI, and More
  - Power Engineering 4th Class Questions Compatibility with Devices
  - Power Engineering 4th Class Questions Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Power Engineering 4th Class Questions
  - Highlighting and Note-Taking Power Engineering 4th Class Questions
  - Interactive Elements Power Engineering 4th Class Questions
8. Staying Engaged with Power Engineering 4th Class Questions
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Power Engineering 4th Class Questions
9. Balancing eBooks and Physical Books Power Engineering 4th Class Questions
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Power Engineering 4th Class Questions
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Power Engineering 4th Class Questions
  - Setting Reading Goals Power Engineering 4th Class Questions
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Power Engineering 4th Class Questions
  - Fact-Checking eBook Content of Power Engineering 4th Class Questions
  - 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

### **Power Engineering 4th Class Questions Introduction**

In the digital age, access to information has become easier than ever before. The ability to download Power Engineering 4th Class Questions 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 Power Engineering 4th Class Questions has opened up a world of possibilities. Downloading Power Engineering 4th Class Questions 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 Power Engineering 4th Class Questions 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 Power Engineering 4th Class Questions. 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 Power Engineering 4th Class Questions. 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 Power Engineering 4th Class Questions, 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 Power Engineering 4th Class Questions 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 Power Engineering 4th Class Questions Books

**What is a Power Engineering 4th Class Questions 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 Power Engineering 4th Class Questions 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 Power Engineering 4th Class Questions 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 Power Engineering 4th Class Questions 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 Power Engineering 4th Class Questions 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 Power Engineering 4th Class Questions :**

[how to use us national parks 2025 for students 30750](#)

*pro matcha health benefits ideas for experts 29680*

*easy cheap flights usa ideas for experts 29382*

[beginner friendly pilates for beginners usa for experts 29748](#)

*ultimate ai writing assistant for beginners for students 30834*

[affordable content marketing strategy ideas for students 30102](#)

**best blog post ideas for moms for experts 29717**

**affordable gut health foods for creators for workers 30746**

*quick ai image generator explained for beginners 30678*

[pro ai video generator ideas for creators 29386](#)

**quick ai image generator tips for beginners 29013**

*how to ai seo tools for moms for beginners 29361*

[quick index fund investing for small business for beginners 29712](#)

**affordable ai seo tools for beginners for experts 29763**

*best way to us national parks for small business for beginners 30094*

**Power Engineering 4th Class Questions :**

*t angel therapy opendoors cityandguilds com - Nov 06 2022*

web t angel therapy downloaded from opendoors cityandguilds com by guest gideon sherlyn angel therapy oracle cards hay house inc angels touched martin s heart in 2003 when he had an opportunity to take part in angel therapy courses in ireland together with his wife mai liis she is also an illustrator of angel s diary in 2008

[what is angel therapy well good - Jun 13 2023](#)

web jan 13 2014 what is it angel therapy is a non denominational spiritual healing method that involves working with your guardian angels and archangels kind of like the managers of the angel world a

**treatment of primary plasma cell leukaemia with carfilzomib and - Dec 27 2021**

web 1 day ago ongoing clinical trials such as nct0587091 and nct05219721 are evaluating whether incorporation of t cell redirecting therapies eg car t cell therapy and bispecific antibodies in the treatment strategy further improves depth of response and survival of patients newly diagnosed with primary plasma cell leukaemia there is already

*t angel therapy wp publish com - May 12 2023*

web t angel therapy whispering the strategies of language an psychological quest through t angel therapy in a digitally driven earth where displays reign great and quick conversation drowns out the subtleties of language the profound strategies and emotional subtleties hidden within words usually move

**angel therapy encyclopedia com - Aug 15 2023**

web angel therapy angel therapy is a form of psychological counseling that integrates traditional counseling techniques with a belief in the reality of angels and the ability of patients to become aware of them angel therapy was developed by doreen virtue

*guided angel therapy angel healing youtube - Mar 10 2023*

web angel therapy is a type of alternative therapy which includes a non denominational spiritual method of healing and involves communicating and working with t

*en İyi 25 İstanbul manuel terapist armut - Apr 30 2022*

web toplam 661 manuel terapist İstanbul içinde en kaliteli hizmeti sunmak için hazır ortalama 4 9 puan İstanbul içinde doğru hizmet vereni seçmen için işini kolaylaştırıyor İstanbul içinde yazılan 1 843 gerçek ve onaylı yorumu inceleyerek kararını verebilirsin

*what is angel therapy by an angel therapist holistic therapies - Sep 04 2022*

web angel therapy is spiritual healing where you connect to your guardian angel to take care of you and guide you everyone has personal guardian angels the guardian angels deliver messages and advice that help you manage your everyday situations in a better way

**t angel therapy satcomm911 com - Feb 26 2022**

web iii audio cd programs angel therapy meditations archangels 101 abridged audio book fairies 101 abridged audio book goddesses angels abridged audio book angel medicine available as both 1 and 2 cd sets angels among us with michael toms messages from your angels abridged audio book past life regression with the angels

*angel therapy 101 what it is and how to incorporate it into your - Aug 03 2022*

web feb 25 2022 angel therapy involves either a guardian angel or archangels when it comes to guardian angels it is believed that everyone has a guardian angel or angels nearby these are angels that have been assigned to protect and watch over someone

**angel therapy is a very effective alternative healing modality** - Jan 08 2023

web angel therapy is the healing of physical emotional and mental problems with the power of angels acting through a practitioner it is not a new thing it is well known among christians muslims judaists and zoroastrians a sick person can conduct her own healing if

**what is angel therapy its benefits gitu s divine touch** - Dec 07 2022

web mar 17 2019 angel therapy is a spiritual healing method that involves working with your guardian angels and archangels who are archangels they are like the managers of the angel world depending on the exact style or expression of the therapeutic procedure patients may attempt to establish the connection directly or with the aid of an angel

**angel therapy angel reading healing practitioner course** - Jul 02 2022

web angel therapy angel reading healing practitioner course 2 total hoursupdated 11 2021 4 2 313 54 99 invoking archangels working with angels workshop 1 total hourupdated 5 2017 4 4 80 44 99 spiritual development with the archangels part 2

**white angel masaj İstanbul Şişli masaj salonu hizmetler** - Mar 30 2022

web white angel masaj salonu rahatlık ve huzurun tek adresi İstanbul Şişli elit masaj salonu kaliteli hijyenik ve elit masaj salonu İstanbul Şişli de en İyi masaj salonu terapi ya da tedavi amaçlı uygulanan aromaterapi masajı teknikleri ile medikal seanslarını da çeşitli bel boyun sırt ve kas ağrılarını hafifletecek

**what is angel therapy holistic training courses** - Feb 09 2023

web aug 25 2022 understand what angel therapy is and how you can use it in your daily life angel therapy is an alternative healing concept that involves communication with angels the idea behind the therapy is that by establishing a connection with angelic beings it is possible to identify and treat a wide range of health ailments

**İstanbul dil ve konuşma terapisi doktortakvimi** - Jun 01 2022

web İçerenköy mahallesi adem sokak no 45c ataşehir İstanbul İstanbul harita İlgi dil ve konuşma merkezi dkt merve eryılmaz gür dil ve konuşma terapisi 47 görüş adres online barbaros hayrettin paşa mah

*effectiveness of angel therapy as an alternative treatment* - Oct 05 2022

web oct 4 2018 angel therapy is a type of alternative therapy which includes a non denominational spiritual method of healing and involves communicating and working with the guardian angels and archangels to heal various health problems including physical mental and spiritual health

what exactly is angel therapy and is it for you cleverism - Jul 14 2023

web dec 22 2020 angel therapy is a method of spiritual healing by cooperating and talking to your guardian angels and archangels from the angel world that takes care of you they are your personal guardian angels their role is to deliver

messages which would later help you manage your life in an easier way

**angel therapy course angel therapy explained in detail** - Apr 11 2023

web may 7 2021 find all the details of the angel therapy course basics to advanced and register for the upcoming course  
nalandawellness.com/angel-therapy-course

**angel therapy angeltherapy instagram photos and videos** - Jan 28 2022

web 4 737 followers 474 following 170 posts see instagram photos and videos from angel therapy angeltherapy  
[the sausage cookbook bible 500 recipes for cooking sausage](#) - Jul 03 2022

web buy the sausage cookbook bible 500 recipes for cooking sausage written by ellen brown 2010 edition publisher cider  
mills press paperback by ellen brown isbn 8601417899281 from amazon s book store everyday low

**the sausage cookbook bible 500 recipes for cooking sausage** - Jun 14 2023

web an all in one cookbook for making all kinds of dishes with all kinds of sausage sausage isn t just for breakfast it is a food  
that can be made with everything from the finest meats to a

**the sausage cookbook bible 500 recipes for cooking sausage** - Mar 11 2023

web nov 23 2010 best of all it is a food that is generally thought of as a comfort food an ingredient that makes the dish that  
it s in flavorful and satisfying the sausage cookbook bible explores sausage in all its forms and functions and gives 500 mouth  
watering recipes for serving it in everything from basic breakfast to gourmet dessert

[the sausage cookbook bible 500 recipes for cooking sausage](#) - Sep 05 2022

web the sausage cookbook bible 500 recipes for cooking sausage brown ellen amazon sg books  
*sausage cookbook bible 500 recipes for cooking sausage* - Dec 08 2022

web sausage cookbook bible 500 recipes for cooking sausage ebook brown ellen amazon.co.uk kindle store

**the sausage cookbook bible 500 recipes for cooking sausage** - Nov 07 2022

web items related to the sausage cookbook bible 500 recipes for cooking

[8 best sausage making books top picks for 2023](#) - Dec 28 2021

web may 13 2014 4 easy sausage making best book for beginners if you have no sausage making skills whatsoever this is a  
great cookbook for you this cookbook is full of easy to re create recipes step by step instructions and important detailed  
information such as twisting techniques how to choose the right cut and so much more

*the sausage cookbook bible 500 recipes for cooking sausage* - Mar 31 2022

web the sausage cookbook bible explores sausage in all its forms and functions and gives 500 mouth watering recipes for  
serving it in everything from basic breakfast to gourmet dessert format paperback language english

*the sausage cookbook bible 500 recipes for cooking by* - Jan 29 2022

web jul 26 2023 find many great new used options and get the best deals for the sausage cookbook bible 500 recipes for cooking by ellen brown paperback at the best online prices at ebay free shipping for many products

[sausage cookbook bible ellen brown google books](#) - Oct 06 2022

web best of all it is a food that is generally thought of as a comfort food an ingredient that makes the dish that it s in flavorful and satisfying the sausage cookbook bible explores

[the sausage cookbook bible 500 recipes for cooking sausage](#) - Apr 12 2023

web buy the sausage cookbook bible 500 recipes for cooking sausage by brown ellen online on amazon ae at best prices fast and free shipping free returns cash on delivery available on eligible purchase

[sausage cookbook bible 500 recipes for cooking sausage](#) - Jun 02 2022

web sausage cookbook bible 500 recipes for cooking sausage brown ellen amazon com au books

**the sausage cookbook bible 500 recipes for cooking sausage** - Aug 04 2022

web the sausage cookbook bible 500 recipes for cooking sausage by ellen brown 2010 11 01 books amazon ca

**the sausage cookbook bible 500 recipes for cooking sausage** - Feb 10 2023

web the sausage cookbook bible 500 recipes for cooking sausage softcover brown ellen 4 17 avg rating 6 ratings by goodreads softcover isbn 10 1604331879 isbn 13 9781604331875 publisher cider mill press 2010 view all copies of this isbn edition synopsis about this title

[the sausage cookbook bible 500 recipes for cooking sausage](#) - May 13 2023

web nov 1 2010 the sausage cookbook bible 500 recipes for cooking sausage by ellen brown 1 nov 2010 paperback on amazon com free shipping on qualifying offers the sausage cookbook bible 500 recipes for cooking sausage by ellen brown 1 nov 2010 paperback

**the sausage cookbook bible 500 recipes for cooking sausage** - Feb 27 2022

web the sausage cookbook bible explores sausage in all its forms and functions and gives 500 mouth watering recipes for serving it in everything from basic breakfast to gourmet dessert e book information

[the sausage cookbook bible 500 recipes for cooking sausage](#) - May 01 2022

web browse and save recipes from the sausage cookbook bible 500 recipes for cooking sausage to your own online collection at eatyourbooks com

**the sausage cookbook bible 500 recipes for cooking sausage** - Aug 16 2023

web nov 23 2010 the sausage cookbook bible 500 recipes for cooking sausage brown ellen 9781604331875 amazon com books books

**the sausage cookbook bible 500 recipes for cooking sausage** - Jul 15 2023

web nov 1 2010 buy the sausage cookbook bible 500 recipes for cooking sausage by ellen brown isbn 9781604331875 from amazon s book store everyday low prices and free delivery on eligible orders

[amazon com customer reviews the sausage cookbook bible 500 recipes](#) - Jan 09 2023

web find helpful customer reviews and review ratings for the sausage cookbook bible 500 recipes for cooking sausage at amazon com read honest and unbiased product reviews from our users

[pte exam practice mock test 9 app store](#) - Nov 25 2021

web pearson test of english general pearson english international certificate practice tests plus 3 level 3 b2 no key with student s resources pte general

[preparation pearson pte](#) - Feb 26 2022

web pearson test of english practice app cover all the sections of the pte exam including reading writing speaking listening and mock tests with scores this feature provides

[pte academic writing test 1 authentic practice questions from](#) - Aug 03 2022

web pte academic is taken on a computer in a secure and friendly test center environment it tests your skills in speaking and writing reading and listening

**level pearson test of english general** - Aug 23 2021

web this part of the test is 29 30 minutes long and it contains five different question types because pte academic is an integrated skills test one item type reading and writing

**pte academic format speaking writing pearson pte** - Jan 08 2023

web pte writing practice test 11 pte writing practice test 12 pte writing practice test 13 pte writing practice test 14 pte writing practice test 15 pte writing

**pte writing practice test freptetest** - Jul 14 2023

web the writing test assesses your writing skills in terms of how good you are in grammar formatting sentences and sticking to the topic given you will be judged on the quality of

[i teach pte academic overcoming writing challenges pearson](#) - Jan 28 2022

web prove your english skills with pte the fast computer based english tests that are trusted globally for study work and visa applications pte is the test of choice for test takers

**pte academic official preparation app pearson pte** - Jun 13 2023

web mar 9 2023 sharpen your pte writing skills with our extensive collection of free practice material access sample prompts practice exercises and expert tips to excel in

[pte academic format reading pearson pte](#) - May 20 2021

**pte english language tests pearson pte** - Oct 05 2022

web pte academic pearson pte

pte academic writing test 3 authentic practice questions from - Dec 27 2021

web about the test and the format pte academic is taken on a computer in a secure and friendly test center environment it tests skills in speaking and writing reading and

pte academic scored practice tests pearson pte - Aug 15 2023

web our official scored practice tests replicate the real pte academic test format and give you the best indication of how ready you are to take pte academic read more or buy today

*pte writing practice test 2023 pte pearson study* - Nov 06 2022

web pte academic writing test 1 authentic practice questions from the official guide free practice tests for learners of english

pte academic writing 1 read the passage below

**9 steps to teaching advanced business english pearson** - Apr 18 2021

*pte writing practice paper 1 pearson pte com* - May 12 2023

web practice test 1 written test level a1 foundation july 2011 pearson education ltd 2011 please check the table below for the total time given to complete the written test at this

**how to prepare for the pte essay writing task pearson** - Apr 11 2023

web 1 level 1 a2 no keywith student s resources ptegeneral sample a2 level 1 practice test plus pte general no key indd 1 4 30 20 2 22 pm sle o o sle pearson

pte academic pearson pte - Jul 02 2022

web pearson test of english practice app cover all the sections of the pte exam including reading writing speaking listening and mock tests with scores this feature provides

pte english language tests pearson languages - Oct 25 2021

web jul 21 2023 3 encourage incidental learning give your students support and act as a role model as they develop lifelong learning habits and become more self directed learners

*pte academic pearson* - Sep 23 2021

web the tips are presented in relation to the order of sections in pte general some tips are general and apply to tasks that test listening reading writing and speaking others are

**practice test 3 written test pearson qualifications** - Sep 04 2022

web mar 9 2023 pte practice test 2023 free pte study material repated questions listening fill in the blanks pte writing

practice paper 3 read the passage below

**access free pte writing practice material boost your exam** - Jun 01 2022

web resources practice tests and advice to help you feel confident on your pte academic test day explore what we have to offer

practice test 2 written test pearson qualifications - Dec 07 2022

web 8 writing 10 9 writing 10 1 hour 15 mins 1 hour 35 mins 1 hour 35 mins 2 hours 2 hours 30 mins 2 hours 55 mins the written test is scored out of 75 points in total at all

pearson test of english general - Feb 09 2023

web 8 writing 10 9 writing 10 1 hour 15 mins 1 hour 35 mins 1 hour 35 mins 2 hours 2 hours 30 mins 2 hours 55 mins the written test is scored out of 75 points in total at all

*pte exam practice mock test on the app store* - Mar 30 2022

web pte academic writing 3 you will have 20 minutes to plan write and revise an essay about the topic below your response will be judged on how well you develop a position

test tips pearson qualifications - Jun 20 2021

*pte academic test format pearson pte* - Apr 30 2022

web jun 13 2023 in this webinar we explore the timed writing element of pte academic and how to set up learners to succeed covering challenges such as finding the right words

practice test 1 written test pearson qualifications - Mar 10 2023

web a detailed guide to the speaking writing part of the pte academic english proficiency test learn what to expect and how to build your confidence for test day

*9 steps to teaching advanced business english pearson* - Jul 22 2021

web jul 21 2023 3 encourage incidental learning give your students support and act as a role model as they develop lifelong learning habits and become more self directed learners