

Engineering Science N4

Summary

Module 1: Kinematics

Unit 1: 1 Relative Velocity

Definitions

- 1) **Scalars:** A quantity that consists of *magnitude only*. Examples are time, mass, distance, speed, energy, work done, etc.
- 2) **Vectors:** A quantity consisting of *magnitude and direction*. Displacement, weight, velocity, momentum, acceleration, etc.
- 3) **Mass:** A quantity of matter. A *scalar* quantity because it has no direction
- 4) **Weight:** A force with which an object is attracted to the earth. Measured in Newtons.
- 5) **Speed:** Distance travelled during a time interval. *Scalar* because of *no direction*.

$$\text{Speed} = \text{distance} \frac{\text{distance}(s)}{\text{time elapsed}(t)}$$

- 6) **Velocity:** Displacement per unit time or rate of displacement and is a vector (direction)

$$\text{Velocity}(v) = \frac{\text{displacement}(\Delta s)}{\text{time elapsed}(\Delta t)}$$

Engineering Science Study Guide

EW Minium



Engineering Science Study Guide:

This is likewise one of the factors by obtaining the soft documents of this **Engineering Science Study Guide** by online. You might not require more period to spend to go to the books start as well as search for them. In some cases, you likewise complete not discover the declaration Engineering Science Study Guide that you are looking for. It will definitely squander the time.

However below, like you visit this web page, it will be thus enormously easy to get as capably as download lead Engineering Science Study Guide

It will not put up with many period as we accustom before. You can pull off it while take action something else at home and even in your workplace. consequently easy! So, are you question? Just exercise just what we provide below as capably as review **Engineering Science Study Guide** what you like to read!

https://staging.conocer.cide.edu/data/uploaded-files/default.aspx/manuale_somfy_hipro_csi.pdf

Table of Contents Engineering Science Study Guide

1. Understanding the eBook Engineering Science Study Guide
 - The Rise of Digital Reading Engineering Science Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Engineering Science Study Guide
 - 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 Engineering Science Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Engineering Science Study Guide

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

- Fact-Checking eBook Content of Engineering Science Study Guide
 - 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

Engineering Science Study Guide Introduction

In this digital age, the convenience of accessing information at our fingertips has become a necessity. Whether its research papers, eBooks, or user manuals, PDF files have become the preferred format for sharing and reading documents. However, the cost associated with purchasing PDF files can sometimes be a barrier for many individuals and organizations. Thankfully, there are numerous websites and platforms that allow users to download free PDF files legally. In this article, we will explore some of the best platforms to download free PDFs. One of the most popular platforms to download free PDF files is Project Gutenberg. This online library offers over 60,000 free eBooks that are in the public domain. From classic literature to historical documents, Project Gutenberg provides a wide range of PDF files that can be downloaded and enjoyed on various devices. The website is user-friendly and allows users to search for specific titles or browse through different categories. Another reliable platform for downloading Engineering Science Study Guide free PDF files is Open Library. With its vast collection of over 1 million eBooks, Open Library has something for every reader. The website offers a seamless experience by providing options to borrow or download PDF files. Users simply need to create a free account to access this treasure trove of knowledge. Open Library also allows users to contribute by uploading and sharing their own PDF files, making it a collaborative platform for book enthusiasts. For those interested in academic resources, there are websites dedicated to providing free PDFs of research papers and scientific articles. One such website is Academia.edu, which allows researchers and scholars to share their work with a global audience. Users can download PDF files of research papers, theses, and dissertations covering a wide range of subjects. Academia.edu also provides a platform for discussions and networking within the academic community. When it comes to downloading Engineering Science Study Guide free PDF files of magazines, brochures, and catalogs, Issuu is a popular choice. This digital publishing platform hosts a vast collection of publications from around the world. Users can search for specific titles or explore various categories and genres. Issuu offers a seamless reading experience with its user-friendly interface and allows users to download PDF files for offline reading. Apart from

dedicated platforms, search engines also play a crucial role in finding free PDF files. Google, for instance, has an advanced search feature that allows users to filter results by file type. By specifying the file type as "PDF," users can find websites that offer free PDF downloads on a specific topic. While downloading Engineering Science Study Guide free PDF files is convenient, it's important to note that copyright laws must be respected. Always ensure that the PDF files you download are legally available for free. Many authors and publishers voluntarily provide free PDF versions of their work, but it's essential to be cautious and verify the authenticity of the source before downloading Engineering Science Study Guide. In conclusion, the internet offers numerous platforms and websites that allow users to download free PDF files legally. Whether it's classic literature, research papers, or magazines, there is something for everyone. The platforms mentioned in this article, such as Project Gutenberg, Open Library, Academia.edu, and Issuu, provide access to a vast collection of PDF files. However, users should always be cautious and verify the legality of the source before downloading Engineering Science Study Guide any PDF files. With these platforms, the world of PDF downloads is just a click away.

FAQs About Engineering Science Study Guide 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. Engineering Science Study Guide is one of the best book in our library for free trial. We provide copy of Engineering Science Study Guide in digital format, so the resources that you find are reliable. There are also many Ebooks of related with Engineering Science Study Guide. Where to download Engineering Science Study Guide online for free? Are you looking for Engineering Science Study Guide PDF? This is definitely going to save you time and cash in something you should think about.

Find Engineering Science Study Guide :

manuale somfy hipro csi

march 2014 life sciences question paper

manuale istruzioni dacia duster

marantz dvd user guide

~~maplecroft climate change risk report~~

march question paper of life sciences in grade11 march

marcheacute au sexe

manually eject cd from mac

march supplementary timetable 2015 afrikaans paper 3

manufacturing automation 2012 altintas

~~manuale fiat marea weekend~~

manuale fiat nuova croma

maple glazed walnut recipe

maplestory unleashed training guide basilmarket

~~marchez tant que vous avez la lumiegravere~~

Engineering Science Study Guide :

cardiovascular physiology ninth edition cardioly - Apr 12 2023

web jul 26 2018 buy cardiovascular physiology ninth edition cardioly 9 by mohrman david e heller lois jane isbn 9781260026115 from amazon s book store everyday low prices and free delivery on eligible orders

download cardiovascular physiology 9th edition pdf free - Aug 04 2022

web aug 17 2021 download cardiovascular physiology 9th edition pdf free august 17 2021 by dr medicalstudyzone com leave a comment in this blog post we are going to share a free pdf download of cardiovascular physiology 9th

cardiovascular physiology 9th edition vitalsource - May 01 2022

web over 5 billion cardiovascular physiology 9th edition is written by david e mohrman lois jane heller and published by mcgraw hill education medical the digital and etextbook isbns for cardiovascular physiology are 9781260026122 1260026124 and the print isbns are 9781260026115 1260026116

cardiovascular physiology ninth edition mheducation co uk - May 13 2023

web the best cardiovascular review available for the usmle exam review and course work a doody's core title for 2021 cardiovascular physiology ninth edition is a concise and enjoyable way for you to gain a fundamental knowledge of the basic operating principles

cardiovascular physiology ninth edition goodreads - Oct 06 2022

web aug 22 2018 cardiovascular physiology ninth edition is a concise and enjoyable way for you to gain a fundamental knowledge of the basic operating principles of the intact cardiovascular system and how those principles apply to clinical medicine

cardiovascular physiology ninth edition amazon com - Jul 15 2023

web jul 6 2018 a doody's core title for 2022 cardiovascular physiology ninth edition is a concise and enjoyable way for you to gain a fundamental knowledge of the basic operating principles of the intact cardiovascular system and

cardiovascular physiology ninth edition barnes noble - Mar 11 2023

web aug 22 2018 cardiovascular physiology ninth edition is a concise and enjoyable way for you to gain a fundamental knowledge of the basic operating principles of the intact cardiovascular system and how those principles apply to clinical medicine succinct but thorough it focuses on the facts and concepts you must know to get a solid big picture

cardiovascular physiology ninth edition mohrman david e - Nov 07 2022

web cardiovascular physiology ninth edition is a concise and enjoyable way for you to gain a fundamental knowledge of the basic operating principles of the intact cardiovascular system and how those principles apply to clinical medicine succinct but thorough it focuses on the facts and concepts you must know to get a solid big picture

cardiovascular physiology ninth edition book online z library - Jun 14 2023

web discover cardiovascular physiology ninth edition book an intriguing read explore cardiovascular physiology ninth edition in z library and find free summary reviews read online quotes related books ebook resources

cardiovascular physiology ninth edition google books - Aug 16 2023

web jul 6 2018 cardiovascular physiology ninth edition is a concise and enjoyable way for you to gain a fundamental knowledge of the basic operating principles of the intact cardiovascular system and

cardiovascular physiology 9th edition pdf pdf books free - Jun 02 2022

web dec 19 2019 this ninth edition includes some recent new findings as well as a newly added emphasis on cardiovascular energetics the latter is a result of our recent realization that maximizing energy efficiency to limit the workload on the heart is an important part of the overall plan

cardiovascular physiology ninth edition epub afkebooks - Jan 29 2022

web cardiovascular physiology ninth edition is a concise and enjoyable way for you to gain a fundamental knowledge of the

basic operating principles of the

cardiovascular physiology ninth edition cardioly - Jul 03 2022

web the best cardiovascular review available for the usmle exam review and course work cardiovascular physiology ninth edition is a concise and enjoyable way for you to gain a fundamental knowledge of the basic operating principles of the intact cardiovascular system and how those principles apply to clinical medicine

cardiovascular physiology ninth edition on apple books - Jan 09 2023

web aug 22 2018 the best cardiovascular review available for the usmle exam review and course work a doody's core title for 2021 cardiovascular physiology ninth edition is a concise and enjoyable way for you to gain a

cardiovascular physiology ninth edition pasta blanda - Sep 05 2022

web cardiovascular physiology ninth edition is a concise and enjoyable way for you to gain a fundamental knowledge of the basic operating principles of the intact cardiovascular system and how those principles apply to clinical medicine succinct but thorough it focuses on the facts and concepts you must know to get a solid big picture overview

pdf chapter 35 cardiac anatomy and physiology - Dec 28 2021

web jul 9 2022 chapter 35 cardiac anatomy and physiology july 2022 in book manual of pediatric intensive care pp 324 integrated anatomy and physiology october 1957 southern medical journal read more

cardiovascular physiology 9th edition kitaabnow - Feb 27 2022

web cardiovascular physiology ninth edition is a concise and enjoyable way for you to gain a fundamental knowledge of the basic operating principles of the intact cardiovascular system and how those principles apply to clinical medicine

cardiovascular physiology ninth edition 9th edition chegg - Dec 08 2022

web jul 6 2018 coupon rent cardiovascular physiology ninth edition 9th edition 9781260026115 and save up to 80 on textbook rentals and 90 on used textbooks get free 7 day instant etextbook access

cardiovascular physiology ninth edition alibris - Mar 31 2022

web cardiovascular physiology ninth edition is a concise and enjoyable way for you to gain a fundamental knowledge of the basic operating principles of the intact cardiovascular system and how those principles apply to clinical medicine

cardiovascular physiology ninth edition 9th ed ebooks com - Feb 10 2023

web a doody's core title for 2021 cardiovascular physiology ninth edition is a concise and enjoyable way for you to gain a fundamental knowledge of the basic operating principles of the intact cardiovascular system and how those principles apply to clinical medicine

norwegen postkartenkalender 2020 wochenkalendariu - Jun 09 2022

web norwegen postkartenkalender 2020 wochenkalendariu norwegen land der fjorde minimal factorization of matrix and

operator functions kalender 2020 norway fishing norwegen feuerwehrmann the snowman daughters norwegen 2020 großformat kalender 58 x 45 5 cm midnight cab sweet sweet revenge ltd kalender 2020 skandinavien

mallorca postkartenkalender 2020 wochenkalendariu - Mar 06 2022

web 2020 januar bis dezember 2020 notiere dir deinen t glichen priorit ten to dos t glichen meetings skizzen und notizen dieser tagesplaner bietet folgendes 6x9 wie a5 380 seiten creme farbenes papier und ein sch nes mattes cover queen elizabeth ii and the royal family dk 2021 06 08 queen elizabeth ii and the royal

südtirol kalender passende angebote jetzt bei weltbild - Jan 16 2023

web kalender xxl mit stimmungsvollen aufnahmen südtiro 22 00 südtirol eine reise durch bezaubernde landschaften 2024 kalender din a3 16 95 südtirol eine reise durch bezaubernde landschaften 2024 kalender din a2 34 95 südtirol wochenplaner 2024 wochenkalendarium zitate und viel platz für notizen in einem kalender

sudtirol postkarten kalender 2020 amazon com au books - Dec 15 2022

web select the department you want to search in

provence postkartenkalender 2020 wochenkalendariu pdf 2023 - Aug 11 2022

web jun 18 2023 provence postkartenkalender 2020 wochenkalendariu pdf easy and so fats isnt sudtirol postkartenkalender 2020 wochenkalendariu 2019 09 15 jaelyn marquis provence barrons juveniles simon tofield s animations have taken youtube by storm now the die beste jahreszeit für eine reise in die provence

provence postkartenkalender 2020 wochenkalendariu pdf pdf - Feb 05 2022

web jun 1 2023 provence postkartenkalender 2020 wochenkalendariu pdf can straight get it its suitably no question easy and so fats isnt sudtirol postkartenkalender 2020 wochenkalendariu 2019 09 15 jaelyn marquis provence barrons juveniles simon tofield s animations have taken

provence postkartenkalender 2020 wochenkalendariu - Oct 13 2022

web provence postkartenkalender 2020 wochenkalendariu title provence postkartenkalender 2020 wochenkalendariu full pdf ead3 archivists org subject provence postkartenkalender 2020 wochenkalendariu full pdf created date 10 21 2023 1 30 34 am

sudtirol postkartenkalender 2020 wochenkalendariu pdf pdf - May 20 2023

web sudtirol postkartenkalender 2020 wochenkalendariu pdf upload dona z robertson 1 2 downloaded from voto uncal edu br on august 28 2023 by dona z robertson within the pages of sudtirol postkartenkalender 2020 wochenkalendariu pdf a mesmerizing literary creation penned by way of a celebrated wordsmith readers attempt an

[sudtirol postkartenkalender 2020 wochenkalendariu](#) - Nov 14 2022

web sudtirol postkartenkalender 2020 wochenkalendariu 2 9 downloaded from uniport edu ng on july 17 2023 by guest are

strictly conserved with restricted access so the location of a wealth of preserved tissues and other material that has been collected over the decades is a great benefit for research and study this book can and should be used

sudtirol postkartenkalender 2020 wochenkalendariu - Feb 17 2023

web success next to the statement as capably as insight of this sudtirol postkartenkalender 2020 wochenkalendariu can be taken as well as picked to act collected works lydia sandgren 2023 01 31 a compelling mystery a poignant bildungsroman and a work of great nostalgia for times just past collected works is a novel about love power and

sudtirol postkartenkalender 2020 wochenkalendariu - Aug 23 2023

web 2 sudtirol postkartenkalender 2020 wochenkalendariu 2020 07 01 fathom as the thrillingly nerve racking shelf awareness investigation ventures into dark corners it uncovers the shockingly depraved greed that festers beneath the surface of caregiving institutions and what jeppe and anette discover will turn their blood as cold as ice

provence postkartenkalender 2020 wochenkalendariu pdf - Jul 10 2022

web apr 28 2023 postkartenkalender 2020 wochenkalendariu pdf and numerous ebook collections from fictions to scientific research in any way among them is this provence postkartenkalender 2020 wochenkalendariu pdf that can be your partner provence postkartenkalender 2020 wochenkalendariu

sudtirol postkartenkalender 2020 wochenkalendariu free pdf - Apr 19 2023

web here download and read online sudtirol postkartenkalender 2020 wochenkalendariu pdf book file easily for everyone or every device and also you can download or readonline all file pdf book that related with sudtirol postkartenkalender 2020 wochenkalendariu book happy reading sudtirol postkartenkalender 2020 wochenkalendariu book

wie lange dauert eine postkarte von südtirol nach deutschland gutefrage - May 08 2022

web apr 30 2018 ungefähr so lange wie ein apfel das hängt davon ab was damit machen willst der postversand einer postkarte von südtirol nach deutschland hängt davon ab wo die karte abgibst oder einwirfst und wohin in deutschland sie verschickst die hauptstrecken auf kurzem wege nehmen ein bis zwei tage in anspruch von einer alm

sudtirol postkartenkalender 2020 wochenkalendariu - Jun 21 2023

web the midst of guides you could enjoy now is sudtirol postkartenkalender 2020 wochenkalendariu below tyrol anton prock 2019 11 07 tirol a country in the middle of the alps and in the heart of europe breathtaking nature cities with medieval flair picturesque mountain villages and excellent sports and leisure opportunities tyrol has

südtirol postkartenkalender 2020 wochenkalendariu - Mar 18 2023

web jun 3 2023 postkartenkalender 2020 wochenkalendariu blockkalender format 16 x 17 5 cm by harenberg below südtirol postkartenkalender 2020 wochenkalendariu blockkalender format 16 x 17 5 cm by harenberg is obtainable in

sudtirol postkartenkalender 2020 wochenkalendariu - Jul 22 2023

web computer sudtirol postkartenkalender 2020 wochenkalendariu is easy to use in our digital library an online permission to it is set as public fittingly you can download it instantly our digital library saves in merged countries allowing you to get the most less latency time to download any of our books once this one merely said the sudtirol

südtirol postkartenkalender 2020 wochenkalendarium - Sep 24 2023

web südtirol postkartenkalender 2020 wochenkalendarium blockkalender format 16 x 17 5 cm sehnsuchtskalender 53 postkarten harenberg amazon de books

sudtirol postkartenkalender 2020 wochenkalendariu - Sep 12 2022

web sudtirol postkartenkalender 2020 wochenkalendariu downloaded from admin store motogp com by guest summers deacon dodgers farrar straus and giroux the first installment in the delightful

new york postkartenkalender 2020 wochenkalendariu pdf 2023 - Apr 07 2022

web may 26 2023 new york postkartenkalender 2020 wochenkalendariu pdf eventually you will definitely discover a extra experience and completion by spending sudtirol postkartenkalender 2020 wochenkalendariu web sudtirol postkartenkalender 2020 wochenkalendariu thank you completely

club directors handbook american contract bridge league - Oct 10 2023

web acbl has produced a booklet to assist club directors in making good rulings this booklet duplicate decisions can be used in place of the difficult to understand laws of

the acbl club directors handbook bridgewebs - Sep 09 2023

web duplicate bridge duplicate bridge is continually evolving and changing which is why the world bridge federation has charged its laws committee with the task of at least

club director course book rulings english bridge education - Apr 04 2023

web 1 bridge club director rulings handbook rules and regulations for the government of the reform club with list of the members jul 02 2021 club director apr 30 2021

club manager s handbook american contract bridge league - Jul 07 2023

web the acbl club directors handbook which was published in 2003 and developed to assist club directors in running outstanding club games see the online file at

acbl club directors handbook docslib - Dec 20 2021

bridge club director rulings handbook pdf helpdesk teleco - May 25 2022

web the acbl club directors handbook american contract bridge league 2990 airways blvd memphis tn 38116 3847 901 332 5586 acbl org 2005 dear prospective club

bridge club director rulings handbook copy staging mphasetech - Feb 19 2022

web acbl also has a host of information available on its website you can find the laws of duplicate bridge here web2 acbl org documentlibrary play laws of duplicate

how should the director rule bridge winners - Apr 23 2022

web the instrumental music director s guide to comprehensive program development the publishers circular and booksellers record a lawyer s handbook for enforcing

bridge club director rulings handbook copy wrbb neu - Jan 21 2022

web understand the steps that may be taken following such rulings including score adjustments and appeals understand the principles governing the ebu directives on alerting

duplicate decisions american contract bridge league - Aug 08 2023

web acbl handbook reference for club rules and regulations club director education information convention cards and charts the laws of duplicate bridge duplicate

bridge club director rulings handbook download only - Feb 02 2023

web tournament director courses book rulings for whom ebu members who wish to become fully competent and qualified club directors this is day 2 of 4 objectives on

bridge club director rulings handbook 2022 db csda - Jul 27 2022

web bridge club director rulings handbook downloaded from helpdesk teleco ca by guest donna young a handy bridge player s guide to duplicate simon and schuster over

bridge club director rulings handbook - Aug 28 2022

web and tactics of contract bridge a newcomer s guide bridge engineering handbook five volume set the rough guide to china bridge club director rulings handbook

director please when and how to call the director - Oct 30 2022

web the same way as this one merely said the bridge club director rulings handbook is universally compatible subsequently any devices to read knack bridge for everyone

document library american contract bridge league - May 05 2023

web understand the function of the handbook of ebu permitted understandings 2021 the blue book and its application at club level prerequisites participants should have played

tournament director courses judgement rulings english - Nov 18 2021

club handbook new south wales bridge association nswba - Sep 28 2022

web bridge club director rulings handbook the broadview guide to writing a handbook for students sixth edition the rough guide to southwest china the complete idiot s

tournament director courses book rulings english bridge - Nov 30 2022

web club handbook introduction bridge tree wbf abf nswba nswba council director development directors tips teaching general information teaching

duplicate decisions american contract bridge league - Jun 06 2023

web all of acbl s most searched for documents in one place includes documents handbooks charts rules and guides in one library

acbl club director handbook baron barclay bridge - Mar 03 2023

web lcdc most common director rulings you are declarer and wrong opponent makes opening lead law 54 1 you can accept the lead and you become dummy while partner

the acbl club directors handbook bridgehands - Mar 23 2022

web in common they re all bridge fanatics the card came is popular again at home online and in schools whether readers are learning bridge from scratch or looking to improve

bridge club director rulings handbook 2022 - Jun 25 2022

web oct 18 2019 3c was alerted as showing both majors which apparently was a correct systemic explanation however west forgot the system and actually had a seven card

lcdc most common director rulings bridgewebs - Jan 01 2023

web there are two types of ruling that the director may be required to make book rulings where there is a clear course of action and judgement decisions where there is an