# Advances in Polymer Science

### 54

E. D. v. Meerwall Self-Diffusion in Polymer Systems, Measured with Field-Gradient Spin Echo NMR Methods

C. W. Frank, S. N. Semerak Photophysics of Excimer Formation in Aryl Vinyl Polymers

J. L. Koenig Fourier Transform Infrared Spectroscopy of Polymers



Spectroscopy: NMR, Fluorescence, FT-IR

Springer-Verlag Berlin Heidelberg GmbH

## **Spectroscopy Nmr Fluorescence Ft Ir Advances In Polymer Science**

Praveen K.M.,Rony Thomas Murickan,Jobin Joy,Hanna J. Maria,Jozef T. Haponiuk,Sabu Thomas **Spectroscopy Nmr Fluorescence Ft Ir Advances In Polymer Science:** 

Discover tales of courage and bravery in Explore Bravery with is empowering ebook, Unleash Courage in **Spectroscopy Nmr Fluorescence Ft Ir Advances In Polymer Science** . In a downloadable PDF format (\*), this collection inspires and motivates. Download now to witness the indomitable spirit of those who dared to be brave.

https://archive.kdd.org/About/Resources/fetch.php/the circus lady.pdf

#### Table of Contents Spectroscopy Nmr Fluorescence Ft Ir Advances In Polymer Science

- 1. Understanding the eBook Spectroscopy Nmr Fluorescence Ft Ir Advances In Polymer Science
  - The Rise of Digital Reading Spectroscopy Nmr Fluorescence Ft Ir Advances In Polymer Science
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Spectroscopy Nmr Fluorescence Ft Ir Advances In Polymer Science
  - 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 Spectroscopy Nmr Fluorescence Ft Ir Advances In Polymer Science
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Spectroscopy Nmr Fluorescence Ft Ir Advances In Polymer Science
  - Personalized Recommendations
  - Spectroscopy Nmr Fluorescence Ft Ir Advances In Polymer Science User Reviews and Ratings
  - Spectroscopy Nmr Fluorescence Ft Ir Advances In Polymer Science and Bestseller Lists
- 5. Accessing Spectroscopy Nmr Fluorescence Ft Ir Advances In Polymer Science Free and Paid eBooks
  - Spectroscopy Nmr Fluorescence Ft Ir Advances In Polymer Science Public Domain eBooks
  - Spectroscopy Nmr Fluorescence Ft Ir Advances In Polymer Science eBook Subscription Services
  - Spectroscopy Nmr Fluorescence Ft Ir Advances In Polymer Science Budget-Friendly Options
- 6. Navigating Spectroscopy Nmr Fluorescence Ft Ir Advances In Polymer Science eBook Formats

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

#### Spectroscopy Nmr Fluorescence Ft Ir Advances In Polymer Science Introduction

Free PDF Books and Manuals for Download: Unlocking Knowledge at Your Fingertips In todays fast-paced digital age, obtaining valuable knowledge has become easier than ever. Thanks to the internet, a vast array of books and manuals are now available for free download in PDF format. Whether you are a student, professional, or simply an avid reader, this treasure trove of downloadable resources offers a wealth of information, conveniently accessible anytime, anywhere. The advent of online libraries and platforms dedicated to sharing knowledge has revolutionized the way we consume information. No longer confined to physical libraries or bookstores, readers can now access an extensive collection of digital books and manuals with just a few clicks. These resources, available in PDF, Microsoft Word, and PowerPoint formats, cater to a wide range of interests, including literature, technology, science, history, and much more. One notable platform where you can explore and download free Spectroscopy Nmr Fluorescence Ft Ir Advances In Polymer Science PDF books and manuals is the internets largest free library. Hosted online, this catalog compiles a vast assortment of documents, making it a veritable goldmine of knowledge. With its easy-to-use website interface and customizable PDF generator, this platform offers a userfriendly experience, allowing individuals to effortlessly navigate and access the information they seek. The availability of free PDF books and manuals on this platform demonstrates its commitment to democratizing education and empowering individuals with the tools needed to succeed in their chosen fields. It allows anyone, regardless of their background or financial limitations, to expand their horizons and gain insights from experts in various disciplines. One of the most significant advantages of downloading PDF books and manuals lies in their portability. Unlike physical copies, digital books can be stored and carried on a single device, such as a tablet or smartphone, saving valuable space and weight. This convenience makes it possible for readers to have their entire library at their fingertips, whether they are commuting, traveling, or simply enjoying a lazy afternoon at home. Additionally, digital files are easily searchable, enabling readers to locate specific information within seconds. With a few keystrokes, users can search for keywords, topics, or phrases, making research and finding relevant information a breeze. This efficiency saves time and effort, streamlining the learning process and allowing individuals to focus on extracting the information they need. Furthermore, the availability of free PDF books and manuals fosters a culture of continuous learning. By removing financial barriers, more people can access educational resources and pursue lifelong learning, contributing to personal growth and professional development. This democratization of knowledge promotes intellectual curiosity and empowers individuals to become lifelong learners, promoting progress and innovation in various fields. It is worth noting that while accessing free Spectroscopy Nmr Fluorescence Ft Ir Advances In Polymer Science PDF books and manuals is convenient and cost-effective, it is vital to respect copyright laws and intellectual property rights. Platforms offering free downloads often operate within legal boundaries, ensuring that the materials they provide are either in the public domain or authorized for distribution. By adhering to copyright laws, users can enjoy the

benefits of free access to knowledge while supporting the authors and publishers who make these resources available. In conclusion, the availability of Spectroscopy Nmr Fluorescence Ft Ir Advances In Polymer Science free PDF books and manuals for download has revolutionized the way we access and consume knowledge. With just a few clicks, individuals can explore a vast collection of resources across different disciplines, all free of charge. This accessibility empowers individuals to become lifelong learners, contributing to personal growth, professional development, and the advancement of society as a whole. So why not unlock a world of knowledge today? Start exploring the vast sea of free PDF books and manuals waiting to be discovered right at your fingertips.

#### FAQs About Spectroscopy Nmr Fluorescence Ft Ir Advances In Polymer Science 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 webbased 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, guizzes, and activities, enhancing the reader engagement and providing a more immersive learning experience. Spectroscopy Nmr Fluorescence Ft Ir Advances In Polymer Science is one of the best book in our library for free trial. We provide copy of Spectroscopy Nmr Fluorescence Ft Ir Advances In Polymer Science in digital format, so the resources that you find are reliable. There are also many Ebooks of related with Spectroscopy Nmr Fluorescence Ft Ir Advances In Polymer Science. Where to download Spectroscopy Nmr Fluorescence Ft Ir Advances In Polymer Science online for free? Are you looking for Spectroscopy Nmr Fluorescence Ft Ir Advances In Polymer Science PDF? This is definitely going to save you time and cash in something you should think about. If you trying to find then search around for online. Without a doubt there are numerous these available and many of them have the freedom. However without doubt you receive whatever you purchase. An alternate way to get ideas is always to check another Spectroscopy Nmr Fluorescence Ft Ir Advances In Polymer Science. This method for see exactly what may be included and adopt these ideas to your book. This site will almost certainly help you save time and effort, money and stress. If you are looking for free books then you really should consider finding to assist you try this. Several of Spectroscopy Nmr Fluorescence Ft Ir Advances In Polymer Science are for sale to free while some are payable. If

you arent sure if the books you would like to download works with for usage along with your computer, it is possible to download free trials. The free guides make it easy for someone to free access online library for download books to your device. You can get free download on free trial for lots of books categories. Our library is the biggest of these that have literally hundreds of thousands of different products categories represented. You will also see that there are specific sites catered to different product types or categories, brands or niches related with Spectroscopy Nmr Fluorescence Ft Ir Advances In Polymer Science. So depending on what exactly you are searching, you will be able to choose e books to suit your own need. Need to access completely for Campbell Biology Seventh Edition book? Access Ebook without any digging. And by having access to our ebook online or by storing it on your computer, you have convenient answers with Spectroscopy Nmr Fluorescence Ft Ir Advances In Polymer Science To get started finding Spectroscopy Nmr Fluorescence Ft Ir Advances In Polymer Science, you are right to find our website which has a comprehensive collection of books online. Our library is the biggest of these that have literally hundreds of thousands of different products represented. You will also see that there are specific sites catered to different categories or niches related with Spectroscopy Nmr Fluorescence Ft Ir Advances In Polymer Science So depending on what exactly you are searching, you will be able to choose ebook to suit your own need. Thank you for reading Spectroscopy Nmr Fluorescence Ft Ir Advances In Polymer Science. Maybe you have knowledge that, people have search numerous times for their favorite readings like this Spectroscopy Nmr Fluorescence Ft Ir Advances In Polymer Science, but end up in harmful downloads. Rather than reading a good book with a cup of coffee in the afternoon, instead they juggled with some harmful bugs inside their laptop. Spectroscopy Nmr Fluorescence Ft Ir Advances In Polymer Science is available in our book collection an online access to it is set as public so you can download it instantly. Our digital library spans in multiple locations, allowing you to get the most less latency time to download any of our books like this one. Merely said, Spectroscopy Nmr Fluorescence Ft Ir Advances In Polymer Science is universally compatible with any devices to read.

#### Find Spectroscopy Nmr Fluorescence Ft Ir Advances In Polymer Science:

the circus lady
the clamdollar caper
the coach to hell
the common pursuit pelican s.

#### the circus popup

the collapse of soviet communism a view from the information society exploratory essays no 2 the coffeehouse investor

#### the cloister and the hearth

the church and residential desegregation

the colonial image australian painting 18001880

the clay pigeons of st. lo

#### the coins of england and the united kingdom 41th edition 2006

the chumash peopleteachers edition

the cia and the u2 program 19541974

the church our story catholic tradition mibion and practice

#### **Spectroscopy Nmr Fluorescence Ft Ir Advances In Polymer Science:**

0000000 0000 - May 01 2022
web doctor snuggles reboot series trailer pilot [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [
0000 0000 00000 0000000 0000000 000000 im $db$ 0000 000 00000 00000 000000000000000

#### books pecksbadboy com - Oct 06 2022

web doctor paulie s amazing worm digger written and illustrated by julie brinckloe scientific learning cover art pecksbadboy inspiration

tucker the amazing dog by pam palagyi alibris - Jun 02 2022

web buy tucker the amazing dog by pam palagyi online at alibris we have new and used copies available in 1 editions starting at 8 04 shop now

doctor paulie s amazing worm digger chapter 1 - Apr 12 2023

web a crossword puzzle by puzzlefast instant puzzle maker puzzle 20120322996631

abebooks - Sep 05 2022

web abebooks

#### doctor paulie s amazing worm digger design bluesquare - Dec 08 2022

web doctor paulie s amazing worm digger 1 doctor paulie s amazing worm digger the world of worm physician professor antiquarian and collector 1588 1654 symptoms in the pharmacy the medical standard the farmer s almanac and calendar by c w johnson and w shaw saini subramanyam vs 2020 the essentials of logic being a second

tor paulie s amazing worm digger copy - Aug 04 2022

web tor paulie s amazing worm digger right here we have countless book tor paulie s amazing worm digger and collections to check out we additionally have enough money variant types and moreover type of the books to browse the adequate book

fiction history novel scientific research as without difficulty as various further sorts of

doctor paulie s amazing worm digger chapter 2 flashcards - Jul 15 2023

web study with quizlet and memorize flashcards containing terms like customer counter formula and more

dr paulie s worm digger chapter 1 youtube - Aug 16 2023

web chan ho hin primary 6 2019 2020

books pecksbadboy com - May 13 2023

web doctor paulie s amazing worm digger inside art paulie and his parents

loading interface goodreads - Jul 03 2022

web discover and share books you love on goodreads

doctor paulie s amazing worm digger book - Mar 11 2023

web doctor paulie s amazing worm digger a dictionary of the english language jan 21 2020 the earth moved sep 21 2022 in the earth moved amy stewart takes us on a journey through the underground world and introduces us to one of its most amazing denizens the earthworm may be small spineless and blind but its impact on the ecosystem is profound

Description 2 doctor	r paulie s	amazing wor	m digger	chapter	1	- Feb	10	2023
----------------------	------------	-------------	----------	---------	---	-------	----	------

doctor paulie s amazing worm digger pdf uniport edu - Nov 07 2022

web feb 20 2023 doctor paulie s amazing worm digger 1 1 downloaded from uniport edu ng on february 20 2023 by guest doctor paulie s amazing worm digger

5 doctor paulie s amazing worm digger chapter 4 match up - Jun 14 2023

web doctor paulie s amazing worm digger chapter 4 share share by blueplanetilsan show more edit content embed like more leaderboard show more show less this leaderboard is currently private click share to make it public this leaderboard has been disabled by the resource owner this leaderboard is disabled as your options are different

doctor paulie s amazing worm digger chapter4 puzzle - Jan 09 2023

web a crossword puzzle by puzzlefast instant puzzle maker puzzle 20120412131181

chccom002 use communication to build relationships - May 11 2023

web 1 communicate with clients and co workers 1 1 identify and use appropriate communication techniques to communicate with clients and colleagues 1 2

chccom302d communicate appropriately with clients and pdf - Feb 08 2023

web mar 25 2023 chccom302d communicate appropriately with clients and pdf but end up in malicious downloads rather than enjoying a good book with a cup of tea in the

chccom302d communicate appropriately with clients and - Aug 14 2023

web application this unit describes the knowledge and skills required to exercise effective communication skills in the workplace the communication skills described in this unit

#### chccom302d communicate appropriately with clients and - Aug 02 2022

web jun 14 2023 we remunerate for chccom302d communicate appropriately with clients and and various books gatherings from fictions to scientific studyh in any way it cannot

#### chccom302d communicate appropriately with clients and - Apr 29 2022

web chccom302d communicate appropriately with clients and colleagues release 1 chccom302d communicate appropriately with clients and colleagues modification

training gov au chccom302c communicate appropriately - May 31 2022

web 1 exercise effective communication techniques 1 1 reflect an understanding and respect for individual differences and needs in all forms of communication with clients and

#### chccom302d communicate appropriately with clients and - Oct 04 2022

web instruction chccom302d communicate appropriately with clients and if you undertaking to download and set up the chccom302d communicate appropriately with

#### evidence guide chccom302d communicate appropriately - Mar 29 2022

web chccom302d communicate appropriately with clients and colleagues what evidence can you provide to prove your understanding of each of the following citeria exercise

#### chccom302d communicate appropriately with clients and - Jan 27 2022

web 1 exercise effective communication techniques 1 1 reflect an understanding and respect for individual differences and needs in all forms of communication with clients and

#### chccom302d communicate appropriately with clients and - Jun 12 2023

web chccom302d communicate appropriately with clients and colleagues assessment tool version 1 0 issue date august 2023 the communication skills described in this unit

#### training gov au chccom302d communicate - Jul 13 2023

web 1 exercise effective communication techniques 1 1 reflect an understanding and respect for individual differences and needs in all forms of communication with clients and

#### chccom302c communicate appropriately with clients and - Feb 25 2022

web communication with clients and colleagues 1 2 introduce oneself appropriately 1 3 ensure communication is clear and relevant to situation activities undertaken 1 4 use

#### chccom302d communicate appropriately with clients and - Dec 26 2021

web a competency mapping template for the aqtf unit chccom302d communicate appropriately with clients and colleagues this will help you to create valid fair and

#### chccom302d communicate appropriately with clients and - Dec 06 2022

web jun 28 2023 chccom302d communicate appropriately with clients and 2 3 downloaded from uniport edu ng on june 28 2023 by guest existing soil profiles in

chccom302d communicate appropriately with clients and - Nov 05 2022

web chccom302d communicate appropriately with clients and author caspar bernauer from orientation sutd edu sg subject chccom302d communicate appropriately

#### chccom302c communicate appropriately with clients and - Nov 24 2021

web competency should be demonstrated over the range of communication methods used in the workplace e g oral written notes memos letters etc and include communication

training material for chccom302d communicate - Apr 10 2023

web trying to find someone to train or assess you this link lists all the rtos that are currently registered to deliver chccom302d communicate appropriately with clients and

spa302d dect cucm cisco community - Jul 01 2022

web apr 24 2013 spa302d dect cucm cisco community webexone 2023 october 24 26 in anaheim ca technical training and labs save 50 with code wx1train50

#### chccom302d communicate appropriately with clients and - Sep 03 2022

web jun 14 2023 chccom302d communicate appropriately with clients and chccom302d communicate appropriately with clients and certificate iv in christian

#### chccom302d communicate appropriately with clients and - Mar 09 2023

web cquni bookshop search and order chccom302d communicate appropriately with clients and colleagues

#### chccom302d communicate appropriately with clients and - Jan 07 2023

web in the trajectory of them is this chccom302d communicate appropriately with clients and that can be your companion as identified expedition as skillfully as expertise just about

 $\textit{media flight plan 6th edition answers} \cdot Feb~25~2022$ 

web media flight plan 6th edition answers 2021 6th international conference on intelligent transportation engineering icite 2021 aug 24 2022 this book features high quality

com3640 media flight plan exercise 6 docx course hero - Apr 29 2022

web view homework help media flight plan exercise 6 docx from com 3640 at appalachian state university media flight plan exercise answers 1 pdf course hero - Aug  $02\ 2022$ 

web because the media flight plan exercise 9 answers joomlaxe com media flight plan exercise answers download media flight plan exercise answers document on this

#### exercise 1 media flight plan exercise 1 you have to studocu - Mar 09 2023

web you have to multiply the impressions by 1000 to get the total impressions good morning america  $1520 \times 1000 \times 1520000$  regis kelly  $4090 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000$ 

media flight plan 6th edition answers pdf uniport edu - Jan 07 2023

web jul 21 2023 right here we have countless books media flight plan 6th edition answers and collections to check out we additionally provide variant types and then type of the

#### media flight plan 6th edition answers pdf uniport edu - Sep 03 2022

web jun 14 2023 media flight plan 6th edition answers 1 6 downloaded from uniport edu ng on june 14 2023 by guest media flight plan 6th edition answers when somebody

#### media flight plan 6th edition answers pdf uniport edu - Oct 04 2022

web may 4 2023 media flight plan 6th edition answers is available in our digital library an online access to it is set as public so you can get it instantly our digital library spans in

media flight plan 6th edition answers pdf pdf vodic - Jan 27 2022

web tiny epoch to open this on line broadcast media flight plan 6th edition answers pdf pdf as without difficulty as review them wherever you are now human factors in aviation

#### media flight plan exercise 6 docx media flight plan - Dec 06 2022

web 1 prefer to see movie on opening weekend 2 prefer to see movie within 1st 2 weeks after opening weekend 3 prefer to see movie after second week 1 5694000 17653000 x 100

#### media flight plan 6th edition answers copy uniport edu - Dec 26 2021

web feb 22 2023 this media flight plan 6th edition answers but end up in infectious downloads rather than reading a good book with a cup of coffee in the afternoon

#### media flight plan textbook solutions chegg com - Jul 13 2023

web guided textbook solutions created by chegg experts learn from step by step solutions for over 34 000 isbns in math science engineering business and more

#### mfp exercise 1 using media flight plan to get results - Apr 10 2023

web good morning america 4 x 1 5 grp the mentalist 3 x 10 0 30 hbo movie 12 x 0 3 3 total 38 regis amp kelly 6 x 3 5 21 grp

60 mins 2 x 10 21 grp the 60 minutes

media flight plan 6th edition answers full pdf - May 31 2022

web advertising media planning sixth edition jack sissors 2002 06 24 the bible of media planning for more than 25 years advertising media planning gives you the proven

media flight plan 6 a strategic approach to media - Sep 22 2021

#### downloadable free pdfs media flight plan 6th edition answers - Mar 29 2022

web the media handbook provides a practical introduction to the advertising media planning and buying processes emphasizing basic calculations and the practical realities of

media flight plan 6th edition answers pdf pdf vodic - Oct 24 2021

web may 27 2023 airlines flight 302 was after the crash of lion air flight 610 on october 29 2018 the second crash of a boeing 737 max 8 within a period of 4 months media

media flight plan exercise answers pdf course hero - Nov 24 2021

web this preview shows page 1 2 out of 2 pages view full document media flight plan exercise answers right here we have countless books media flight plan exercise

mfp7 ex06 2014 08 18 pptx media flight plan exercise 6 using - Jul 01 2022

web aug 18 2014 mfp7 ex06 2014 08 18 pptx media flight plan exercise 6 doc preview pages 11 identified q as 5 solutions available total views 100 california state

solution exercise 6 media plan studypool - Feb 08 2023

web unformatted attachment preview junior wude media flight plan exercise  $6\ 1\ 128136\ x\ 1\ 000\ 000\ 128\ 136\ 000\ 2$  they are expressed in thousands  $000\ 3$  hs grads opening

free solutions for media flight plan quizlet - Nov 05 2022

web find step by step solutions and answers to media flight plan 9780615988283 as well as thousands of textbooks so you can move forward with confidence

#### media flight plan solution manual chegg com - Aug 14 2023

web get instant access to our step by step media flight plan solutions manual our solution manuals are written by chegg experts so you can be assured of the highest quality

#### mfp exercise 3 using media flight plan to get results - Jun 12 2023

web mfp exercise 2 using media flight plan to get results media planning and buying chapter 6 7 takeaways chapter 5 key takeaways brewers survey questions

#### Spectroscopy Nmr Fluorescence Ft Ir Advances In Polymer Science

#### mfp exercise 2 using media flight plan to get results - May 11 2023

web media flight plan exercise 2 1 kids 6 to 14 300 85 3 240 78 3 80 x 6 480 grp minimum requirement no the 6 impressions are to be taken as the average due to