COMMANDMENTS BACK SIDE

A DIFFERENT LOOK AT WHAT GOD'S LAWS MEAN

J. ELLSWORTH KALAS

Ten Commandments From The Back Side Includes A Study Guide

Roman Wölfel

Ten Commandments From The Back Side Includes A Study Guide:

As recognized, adventure as capably as experience approximately lesson, amusement, as without difficulty as concord can be gotten by just checking out a ebook **Ten Commandments From The Back Side Includes A Study Guide** as a consequence it is not directly done, you could say you will even more a propos this life, around the world.

We present you this proper as capably as easy mannerism to get those all. We allow Ten Commandments From The Back Side Includes A Study Guide and numerous ebook collections from fictions to scientific research in any way. in the midst of them is this Ten Commandments From The Back Side Includes A Study Guide that can be your partner.

https://archive.kdd.org/results/virtual-library/fetch.php/the_joy_of_sonatinas_joy_ofseries.pdf

Table of Contents Ten Commandments From The Back Side Includes A Study Guide

- 1. Understanding the eBook Ten Commandments From The Back Side Includes A Study Guide
 - The Rise of Digital Reading Ten Commandments From The Back Side Includes A Study Guide
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Ten Commandments From The Back Side Includes A 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 Ten Commandments From The Back Side Includes A Study Guide
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Ten Commandments From The Back Side Includes A Study Guide
 - Personalized Recommendations
 - Ten Commandments From The Back Side Includes A Study Guide User Reviews and Ratings
 - Ten Commandments From The Back Side Includes A Study Guide and Bestseller Lists
- 5. Accessing Ten Commandments From The Back Side Includes A Study Guide Free and Paid eBooks

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

Ten Commandments From The Back Side Includes A 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 Ten Commandments From The Back Side Includes A 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 Ten Commandments From The Back Side Includes A 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 Ten Commandments From The Back Side Includes A Study Guide free PDF files is convenient, its 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 its essential to be cautious and verify the authenticity of the source before downloading Ten Commandments From The Back Side Includes A Study Guide. In conclusion, the internet offers numerous platforms and websites that allow users to download free PDF files legally. Whether its 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 Ten Commandments From The Back Side Includes A Study Guide any PDF files. With these platforms, the world of PDF downloads is just a click away.

FAQs About Ten Commandments From The Back Side Includes A 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 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. Ten Commandments From The Back Side Includes A Study Guide is one of the best book in our library for free trial. We provide copy of Ten Commandments From The Back Side Includes A Study Guide in digital format, so the resources that you find are reliable. There are also many Ebooks of related with Ten Commandments From The Back Side Includes A Study Guide. Where to download Ten Commandments From The Back Side Includes A Study Guide online for free? Are you looking for Ten Commandments From The Back Side Includes A Study Guide 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 Ten Commandments From The Back Side Includes A Study Guide. 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 Ten Commandments

From The Back Side Includes A Study Guide 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 Ten Commandments From The Back Side Includes A Study Guide. 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 Ten Commandments From The Back Side Includes A Study Guide To get started finding Ten Commandments From The Back Side Includes A Study Guide, 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 Ten Commandments From The Back Side Includes A Study Guide So depending on what exactly you are searching, you will be able to choose ebook to suit your own need. Thank you for reading Ten Commandments From The Back Side Includes A Study Guide. Maybe you have knowledge that, people have search numerous times for their favorite readings like this Ten Commandments From The Back Side Includes A Study Guide, 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. Ten Commandments From The Back Side Includes A Study Guide 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, Ten Commandments From The Back Side Includes A Study Guide is universally compatible with any devices to read.

Find Ten Commandments From The Back Side Includes A Study Guide:

the joy of sonatinas joy of...series
the invisible worm
the kennebec wilderness awakens
the jackal - collectors edition
the ionian mission
the isolation generation
the keeper of the light

the jasmine bride

the japanese invasion the asian experience in north america

the jewels of vicarey harbor

the kant- eberhard controversy

the japanese imperial institution in the tokugawa period

the jeremy mouse

the jesus boy

the journey of martin nadaud a life in turbulent times

Ten Commandments From The Back Side Includes A Study Guide:

dbms tutorial database management system geeksforgeeks - Mar 09 2023

web jun 21 2023 1 integrated data dictionary integrated data dictionary can be seen as a catalog that can be maintained by the relational database in previous databases there

database management system components types - Dec 26 2021

web write short note database function unveiling the energy of verbal artistry an psychological sojourn through write short note database function in a world

write short note database function pdf cornelisfr vanlanschot - Oct 24 2021

what is a database oracle india - Dec 06 2022

web jun 2 2022 learn more about database languages their functions and the categories of these languages and see a list of common database languages and their uses

write short note database function ol wise edu - Nov 24 2021

web a database is an organized collection of structured information or data typically stored electronically in a computer system a database is usually controlled by a database

introduction to sqlite geeksforgeeks - Jan 07 2023

web allows users to create and drop databases and tables allows users to create view stored procedure functions in a database allows users to set permissions on tables

types of database languages and their uses plus examples - Oct 04 2022

web apr 2 2023 courses database users are categorized based up on their interaction with the database these are seven types of database users in dbms database

different types of database users geeksforgeeks - Aug 02 2022

web widely used database engines include oracle db2 and sybase separate front end software running on your own computer lets you tell the database engine what to do

desktop how to write to a database analytics canvas - Apr 29 2022

web dbms keys with dbms overview dbms vs files system dbms architecture three schema architecture dbms language dbms keys dbms generalization dbms

what is a database oracle - Sep 22 2021

database computer notes - May 31 2022

web nov 27 2021 2 click on the blank database icon at the top of microsoft access interface you will see a new dialogue box at the right side of the opening screen window 3 write

sql overview online tutorials library - Nov 05 2022

web mar 17 2023 a database administrator dba is an individual or person responsible for controlling maintaining coordinating and operating a database management system

sql introduction w3schools - Jun 12 2023

web what can sql do sql can execute queries against a database sql can retrieve data from a database sql can insert records in a database sql can update records in a

dba full form geeksforgeeks - Sep 03 2022

web the database and dbms software together is called as database system 3 advantages of dbms redundancy is controlled unauthorised access is restricted providing

write short note database function book - Jul 13 2023

web write short note database function mastering 1 2 3 jun 24 2021 step by step tutorials practical business examples and lucid explanations of complex features characterize this

write short note database function - Jan 27 2022

web right site to begin getting this info acquire the write short note database function partner that we meet the expense of here and check out the link you could purchase lead write

simplified shorthand sql data definition languages - Apr 10 2023

web apr 19 2023 database management system is a software or technology used to manage data from a database some popular databases are mysql oracle mongodb etc

what is a database definition meaning types with - May 11 2023

web nov 6 2014 2 answers actually i just finished creating a php script which does exactly this but i hope there is something more professional out there id id p ai person id

short notes dbms pdf relational database databases - Jul 01 2022

web select database type step 5 connect to the database using your credentials step 6 provide a name for a new table or select an existing table in the database choose if you

write a short note on creation of a database using ms access - Mar 29 2022

web without difficulty as review write short note database function what you subsequently to read statistics for people who think they hate statistics neil j salkind 2016 01 29

database functions reference microsoft support - Aug 14 2023

explore subscription benefits browse training courses learn how to secure your device and more see more short note on data dictionary geeksforgeeks - Feb 08 2023

web a database is an organized collection of structured information or data typically stored electronically in a computer system a database is usually controlled by a database

dbms keys primary foreign candidate and super key - Feb 25 2022

web basics of database management system dbms know the components functions benefits and types of dbms download notes on database management system pdf

department of veterans affairs omb control no - Dec 07 2022

web title department of veterans affairs acquisition regulation vaar va form 6298 formerly 10 6298 architect engineer fee proposal va form 10101 contractor production report formerly va form 10 6131 daily log and va form 10 6001a contract progress report omb control number 2900 0208

va acquisition regulation construction and architect engineer contracts - Apr 11 2023

web sep 7 2018 however we are proposing to amend the information collection requirement to revise the title and to renumber the form currently numbered and titled as va form 10 6131 daily log contract progress report formal contract to replace this form along with replacing the number and title of va form 10 6001a supplement contract progress

daily log contract progress report formal contract architect - Nov $06\ 2022$

web jan 11 2022 abstract this data collection is used to record contract requirements report on status provide data to assure the contractor provides sufficient labor and materials to accomplish the contract work and to provide background data in the event of a law suit

daily log formal contract va copy 50storiesfortomorrow ilfu - Mar 30 2022

web pages of daily log formal contract va a mesmerizing literary creation penned by way of a celebrated wordsmith readers

set about an enlightening odyssey unraveling the intricate significance of language and its enduring affect our lives **agency information collection activity department of veterans affairs** - Mar 10 2023

web sep $7\,2018\,$ va form $10101\,$ contractor production report formerly va form $10\,6131\,$ daily log formal contract and va form $10\,6001a\,$ contract progress report depending on the size of the contract is used to record the data necessary to ensure the contractor provides sufficient labor and materials to accomplish the contract work

daily log formal contract va pdf free support ortax - Apr 30 2022

web title daily log formal contract va pdf free support ortax org created date 9 5 2023 6 02 23 am

daily report of workmen and material daily log formal contract - Feb 09 2023

web nov 2 1990 va omb 2900 0158 omb 2900 0158 latest forms documents and supporting material document name daily report of workmen and material daily log formal contract form all historical document collections 199312 2900 004 approved without change extension without change of a currently approved

form 10 6131 department of veterans affairs daily log formal contract - Oct 05 2022

web view download and print fillable 10 6131 department of veterans affairs daily log al contract in pdf format online browse 443 va forms and templates collected for any of your needs

daily log formal contract va full pdf - Jan 28 2022

web keenness of this daily log formal contract va can be taken as skillfully as picked to act annual report new york state bureau of labor statistics 1910 inventory of federal archives in the states historical records survey u s 1938 commerce business daily 1998 03 daily bulletin of the manufacturers record 1907 biennial report and

supporting statement for 2900 0208 reginfo gov - Jan 08 2023

web b the daily log formal contract or contract progress report which may be submitted on va forms 10 6131 or 10 6001a depending on the size of the contract is used to record the data necessary to assure the contractor provides sufficient labor and materials to accomplish the contract work

proposed information collection architect engineer fee proposal va - May 12 2023

web jul 24 2015 proposed information collection architect engineer fee proposal va form 10 6298 daily log contract progress report formal contract va form 10 6131 and supplement contract progress report va form 10 61001a activity comment request a notice by the veterans affairs department on 07 24 2015 published document

va form 10 6131 daily log formal contract templateroller - Jul 14 2023

web oct 1 2005 download fillable va form 10 6131 in pdf the latest version applicable for 2023 fill out the daily log formal contract online and print it out for free va form 10 6131 is often used in u s department of veterans affairs united states federal legal forms legal and united states legal forms

contract documents log template bizmanualz - Jun 01 2022

web the transmittal sheet must be checked against the documents received to ensure that all items are there the transmittal sheet information would then be recorded in the contract documents log and the transmittal sheet itself would be placed in the appropriate project file contract documents log template details pages 01 words 28 format

daily log formal contract reginfo gov - Aug 15 2023

web va form oct 2005 10 6131 page 1 of 1 daily log formal contract the paperwork reduction act of 1995 requires us to notify you that this information collection is in accordance with the clearance requirements

free daily log templates pdf safetyculture - Feb 26 2022

web sep 5 2023 construction daily log download free template a construction daily log also known as a construction daily report of activities is a record of the work done in the job site for the day start by providing details about the job weather and precipitation workforce instructions given delays and materials

fillable online va daily log formal contract pdffiller - Jul 02 2022

web daily log formal contract the paperwork reduction act of 1995 requires us to notify you that this information collection is in accordance with the fill sign online print email fax or download

daily report of workmen and material daily log formal contract - Sep 04 2022

web agency subagency va agency tracking no title daily report of workmen and material daily log formal contract type of information collection extension without change of a currently approved collection common form icr no type of review request regular oira conclusion action approved without change conclusion date

proposed information collection architect engineer fee proposal va - Aug 03 2022

web jul 24 2015 proposed information collection architect engineer fee proposal va form 10 6298 daily log contract progress report formal contract va form 10 6131 and supplement contract progress report va form 10 61001a activity comment request agency office of management department of veterans affairs action notice

daily log formal contract reginfo gov - Jun 13 2023

web daily log formal contract the paperwork reduction act of 1995 requires us to notify you that this information collection is in accordance with the clearance requirements of section 3507 of the paperwork reduction act of 1995 we electronic processes in organic semiconductors an introduction - May 04 2023

web based on a successful and well proven lecture course given by one of the authors for many years the book is clearly

structured into four sections electronic structure of organic semiconductors charged and excited states in organic semiconductors electronic and optical properties of organic semiconductors and fundamentals of organic semicond electronic processes in organic semiconductors an introduction - Apr 03 2023

web jun 8 2015 electronic processes in organic semiconductors an introduction a köhler h bässler published 8 june 2015 physics the first advanced textbook to provide a useful introduction in a brief coherent and comprehensive way with a active discovery of organic semiconductors nature - May 24 2022

web apr 23 2021 we pursue this concept for the efficient virtual discovery of organic semiconductors oscs for electronic applications

electronic processes in organic semiconductors an introduction - Jul 06 2023

web 2 5 a comparison between inorganic and organic semiconductors 171 2 5 1 crystals 171 2 5 2 amorphous solids 174 2 5 3 the su schrieffer heeger ssh model for conjugated polymers 175 2 6 further reading 181 references 182 3 electronic and optical processes of organic semiconductors 193 3 1 basic aspects of electrical

fundamentals of organic semiconductor devices electronic processes - Jul 26 2022

web mar 20 2015 fundamentals of organic semiconductor devices electronic processes in organic semiconductors wiley online library chapter 4 fundamentals of organic semiconductor devices book author s anna köhler heinz bässler first published 20 march 2015 doi org 10 1002 9783527685172 ch4 citations 5 pdf tools share electronic processes in organic semiconductors wiley online - Oct 09 2023

web mar 20 2015 based on a successful and well proven lecture course given by one of the authors for many years the book is clearly structured into four sections electronic structure of organic semiconductors charged and excited states in organic semiconductors electronic and optical properties of organic semiconductors and fundamentals of

organic semiconductors springerlink - Apr 22 2022

web jan 18 2019 for small organic molecules and oligomers that are solution insoluble vacuum thermal evaporation is an ideal deposition method some organic semiconductors have been deposited using this method currently the best mobility for organic semiconductors has been reported for vacuum deposited pentacene films 2

the electronic structure of organic semiconductors - Oct 29 2022

web mar 20 2015 organic semiconductors are a class of materials that combine the electronic advantages of semiconducting materials with the chemical and mechanical benefits of organic compounds such as plastics this chapter lists some examples for the three different classes of organic semiconductor materials

wiley vch electronic processes in organic semiconductors - Feb 01 2023

web electronic processes in organic semiconductors an introduction köhler anna bässler heinz 1 edition april 2015 xiv 406

pages softcover textbook charged and excited states in organic semiconductors electronic and optical properties of organic semiconductors and fundamentals of organic semiconductor devices

electronic processes in organic semiconductors an introduction - Sep 08 2023

web mar 20 2015 electronic processes in organic semiconductors an introduction authors anna köhler university of bayreuth heinz bässler download citation abstract the first advanced textbook to provide a

electronic and optical processes of organic semiconductors - Sep 27 2022

web mar 20 2015 the most common applications of organic semiconductors encompass organic light emitting diodes oleds organic solar cells oscs and organic field effect transistors ofets the generic structure of an ofet differs from the oled osc structure

electronic processes in organic semiconductors google books - Nov 29 2022

web jun 8 2015 electronic processes in organic semiconductors anna köhler heinz bässler john wiley sons jun 8 2015 technology engineering 424 pages the first advanced textbook to provide a

organic semiconductor an overview sciencedirect topics - Feb 18 2022

web organic semiconductors oscs are receiving increasing attention these days because they have many attractive properties including light weight low cost production low temperature processing mechanical flexibility and abundant availability that distinguish them from their conventional inorganic counterparts

electronic processes in organic semiconductors an introduction - Mar 02 2023

web electronic processes in organic semiconductors an introduction authors anna köhler heinz bässler summary anna koehler has been professor and chair of experimental physics ii at the university of bayreuth since 2007

electronic process in organic semiconductor materials - Aug 07 2023

web oct 14 2022 organic semiconductor materials are the premise of development of organic electronics an understanding of conducting mechanism in conjugated molecules is important for designing new organic semiconductors and device fabrication

organic devices fabrication applications and challenges - Mar 22 2022

web nov 27 2021 for organic semiconductors the energy splitting of the π bonds is usually smaller than that of the σ bonds because of this electronic processes like photon absorption and emission occur energetically favorable in π orbitals similarly the charges injected from the metal contacts to organic materials would tend to occupy π orbitals

electronic processes in organic electronics springer - Aug 27 2022

web the book covers a variety of studies of organic semiconductors from fundamental electronic states to device applications including theoretical studies furthermore innovative experimental techniques e g ultrahigh sensitivity photoelectron

spectroscopy photoelectron yield spectroscopy spin resolved scanning tunneling microscopy stm recent progress in organic electronics materials devices and processes - Dec $31\ 2022$

web abstract research in organic electronics has included advances in materials devices and processes device architectures increasingly complex circuitry reliable fabrication methods and new semiconductors are enabling the incorporation of organic electronic components in products including oled displays and flexible electronic paper

electronic and optical processes of organic semiconductors - Jun 24 2022

web mar 20 2015 summary semiconductors are materials that are intended for use in optoelectronic devices the most common applications of organic semiconductors encompass organic light emitting diodes oleds organic solar cells oscs and organic field effect transistors ofets the generic structure of an ofet differs from the organic electronics an overview of key materials processes and - Jun 05 2023

web jan 1 2022 organic electronics flexible electronics device physics materials chemistry materials science 1 1 introduction organic semiconductors oscs are π conjugated carbon rich materials including small molecules oligomers and polymers